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

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

Form 4400-237 (R 12/18)

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

Definitions

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

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

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

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

Select the Correct Form

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

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

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

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

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

Instructions

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

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

Section 1. Contact and Recipient Information

Requester Information

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

Last Name	First	MI	Organization/ Business Name
Howie	Gordon		Mayo Clinic Health System

Mailing Address	City	State	ZIP Code
1221 Whipple Street, PO BOX 4105	Eau Claire	WI	54702-4105

Phone # (include area code)	Fax # (include area code)	Email
(715) 878-4450		howie.gordon@mayo.edu

The requester listed above: (select all that apply)

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

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

Contact Last Name	First	MI	Organization/ Business Name
Banach	Mitchell	C	Ayres Associates

Mailing Address	City	State	ZIP Code
3433 Oakwood Hills Parkway	Eau Claire	WI	54701

Phone # (include area code)	Fax # (include area code)	Email
(715) 831-7659		banachm@ayresassociates.com

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name
Banach	Mitchell	C	Ayres Associates

Mailing Address	City	State	ZIP Code
3433 Oakwood Hills Parkway	Eau Claire	WI	54701

Phone # (include area code)	Fax # (include area code)	Email
(715) 831-7659		banachm@ayresassociates.com

Section 2. Property Information

Property Name	FID No. (if known)
Adleman's Dry Cleaning	618041490

BRRTS No. (if known)	Parcel Identification Number
02-18-258807	090074

Street Address	City	State	ZIP Code
1502 Bellinger Street	Eau Claire	WI	54703

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Eau Claire	◉ City ○ Town ○ Village of Eau Claire	◉ Single tax parcel ○ Multiple tax parcels	1

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

◉ No ○ Yes

Date requested by: _____

Reason:

_____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Post-Closure Modifications - NR 727, [181]

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

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

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

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

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

Section 4. Request for Liability Clarification

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

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

❖ **Include a fee of $700.**

Provide the following documentation:

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

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

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

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

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

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

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

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

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

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

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

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

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

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

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

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

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

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

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

☐ Perceived environmental contamination - [649];

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

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

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

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

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

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

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

(5) summary of current uses of the Property;

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

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

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

Section 4. Request for Liability Clarification (cont.)

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

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

(1) a copy of the proposed lease;

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

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

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

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

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

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

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

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

- ❖ **Include a fee of $700.**

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

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

- ❖ **Include a fee of $700.**

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

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

The applicant requests No Action Required, documented in a letter, for the release detected at the site referenced above. All supporting documentation for this request was previously submitted to the RR program on January 2, 2019, consisting of a January 2019 Site Investigation Report by Ayres Associates that included historical data collected by other consultants circa 2000.

Section 5. Request for a Specialized Agreement

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

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

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

(1) Phase I and II Environmental Site Assessment Reports,

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

☐ 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.

☐ 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.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

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: _____

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

- ○ Yes - Date (if known): _____
- ○ No

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

Section 7. Certification by the Person who completed this form

- ☐ I am the person submitting this request (requester)
- ☒ I prepared this request for: Mayo Clinic Health System

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

03/01/2019
Date Signed

Environmental Scientist
Title

(715) 831-7659
Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

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

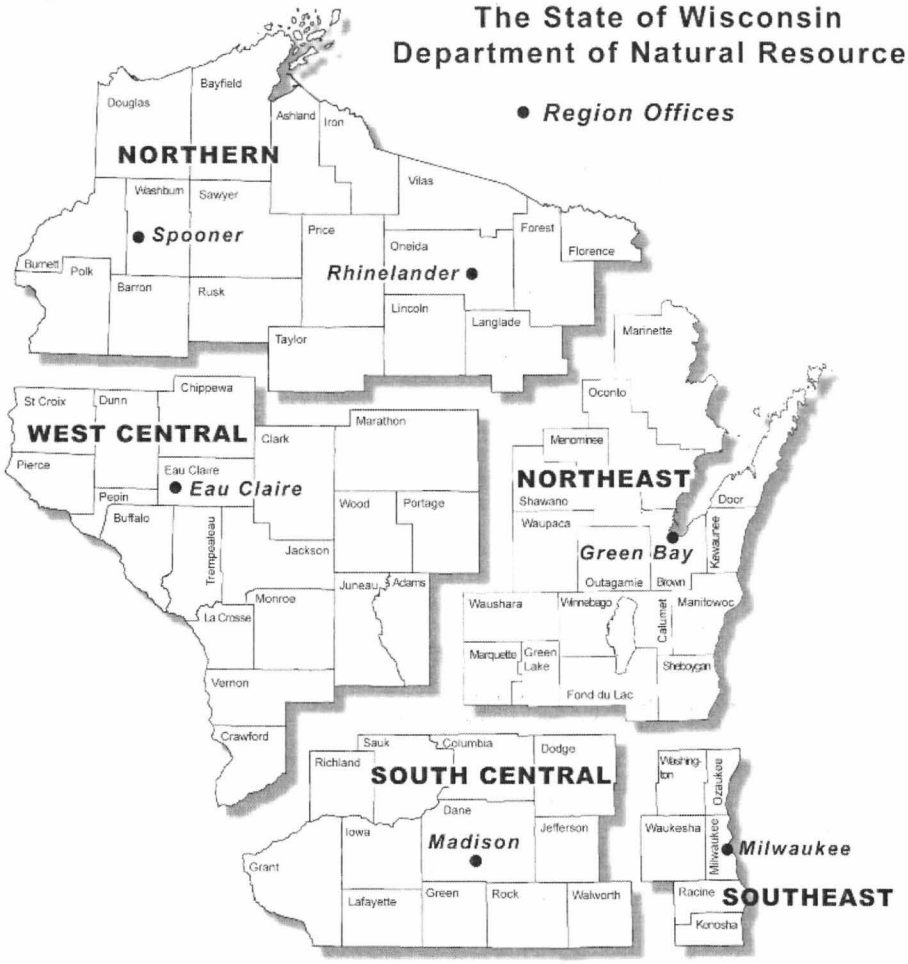
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

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

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

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

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



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

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

Site Investigation Report

Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
BRRTS #02-18-258807

Prepared for:

Mayo Clinic Health System
1221 Whipple Street
PO Box 4105
Eau Claire, WI 54702-4105

January 2019

HireSmart®

Site Investigation Report

Former Adleman's Dry Cleaning
1502 Bellinger Street
Eau Claire, Wisconsin
BRRTS #02-18-258807

This report prepared by:

Mitchell C. Banach
Environmental Scientist

This report reviewed by:

Lori A. Rosemore, PG
Hydrogeologist

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Ayres Associates Project No. 51-0317.00
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Executive Summary

Mayo Clinic Health System (MCHS) has retained Ayres Associates to conduct supplemental Site Investigation at the Former Adleman's Dry Cleaner Environmental Repair Program (ERP) site in Eau Claire, Wisconsin. A release of tetrachloroethene (PCE), a volatile organic compound (VOC), was previously detected in site soil and groundwater. The supplemental site investigation activities in 2018 included the collection and analysis of 18 soil samples from 9 locations, 2 groundwater samples, and 3 soil vapor samples, as well as additional field screening of soils and soil vapors.

PCE was the only VOC constituent detected during the investigation and was detected in shallow soil samples at five locations (GP-1, GP-2, GP-3, GP-5, and GP-6), each exceeding the NR 720 residual contaminant level (RCL) for the protection of groundwater. PCE concentrations did not exceed RCLs for direct contact. PCE was not detected in any soil samples deeper than 10 feet below ground surface. Each of the five soil samples containing detectable concentrations of PCE are located within the boundaries of the site. PCE was not detected in soil samples collected in City of Eau Claire right-of-way (i.e. GP-4 and GP-9). These results indicate that PCE is present in most of the shallow soils across the site.

Groundwater was encountered at an approximate depth of 36 feet bgs during the 2018 investigation activities. Flow direction and hydraulic conductivity cannot be assessed by the limited scope of the 2018 investigation activities. However, previous site investigation data indicates that groundwater flows to the southeast. The hydraulic conductivity of the soil is anticipated to be between 10^{-5} and 10^{-3} cm/s based on the poorly-sorted sands observed at the water table (Fetter, 2001). PCE was detected at GP-9 at a concentration of 10.4 micrograms per liter (µg/L), which exceeds the NR 140 enforcement standard (ES). Other VOC constituents were not present at detectable concentrations in GP-9. PCE or other VOC constituents were not detected at GP-8, with the exception of acetone, which was detected at a concentration of 4,330 µg/L, in exceedance of the NR 140 preventive action limit (PAL). The extent of PCE and acetone in groundwater cannot be definitively determined at this time due to the limited scope of the 2018 site investigation activities, as well as that of previous investigation activities. However, the results suggest that both contaminants are present within City of Eau Claire right-of-way (i.e. Randall Street).

PCE was detected in two of the three sub-slab vapor sampling locations. Locations VS-1 and VS-2 yielded PCE concentrations of 3.4 micrograms per cubic meter (µg/m^3) and 8.4 µg/m^3, respectively, which are below applicable sub-slab vapor regional screening levels (VRSLs). Other chlorinated VOCs were not detected during the 2018 investigation activities. Field screening results from vapor implants at locations GP-1, GP-4, and GP-5 ranged from 0 to 2 instrument units (parts per million isobutylene-equivalent) and did not indicate significant total organic vapor concentrations.

Introduction

Mayo Clinic Health System (MCHS) has retained Ayres Associates to conduct supplemental Site Investigation at the Former Adleman's Dry Cleaner Environmental Repair Program (ERP) site in Eau Claire, Wisconsin. This report documents the technical findings of the investigation and presents conclusions and recommendations regarding the extent of contamination and need for remediation at the site. The report was prepared and is organized in accordance with the requirements listed in Wisconsin Administrative Code NR 716.15.

Site Location

The site is located in the Southeast ¼ of the Southeast ¼ of Section 18, Township 27 North, Range 9 West, in the City of Eau Claire, Eau Claire County, Wisconsin (Figure 1 in Appendix A). The address is 1502 Bellinger Street, Eau Claire, Wisconsin, and the City of Eau Claire Parcel Number is 090074. Latitude and longitude are 44.8148183, -91.5115958.

Project Contacts

The project contacts for this site are as follows:

Client/Property Owner/Responsible Party:	Mayo Clinic Health System 1221 Whipple Street PO Box 4105 Eau Claire, Wisconsin 54702-4105 Gordon Howie E-mail: howie.gordon@mayo.edu
Environmental Consultant:	Ayres Associates Inc 3433 Oakwood Hills Pkwy Eau Claire, WI 54701 Lori Rosemore, PG E-mail: RosemoreL@AyresAssociates.com Mitchell Banach E-mail: BanachM@AyresAssociates.com Phone: 715.834.3161

Drilling and Laboratory Contractors

Drilling Contractors:	Geiss Soil & Samples, LLC W4490 Pope Road Merrill, Wisconsin 54452 715.539.3928 GeissInc@Hughes.net

Laboratory Contractors:	Pace Analytical Services, LLC WDNR Certification No. 999407970 1700 Elm Street, Suite 200 Minneapolis, MN 55414 612.607.6400 Ryan.Mathieu@pacelabs.com

Site Investigation Background

The following information was primarily obtained from a WDNR Liability Clarification Letter dated September 20, 2000. Refer to Appendix A for pertinent figures and tables with historic data.

The Property was historically used by Adleman Dry Cleaning as a commercial laundry and dry-cleaning facility; currently the Property is a vacant parking lot with asphalt pavement. A Phase II site assessment was completed in March 3, 2000, and a limited environmental site investigation, dated August 16, 2000, was also completed to evaluate the potential for soil and/or groundwater contamination at the Property.

The Phase II site assessment involved completing three soil borings to below the water table and constructing three temporary groundwater monitoring wells. Soil was screened for the presence of volatile organic compounds (VOCs) using a photoionization detector, screening detections were not found from that testing. Moreover, soil samples were not submitted for laboratory analysis. Three groundwater samples, one from each of the three temporary wells, were collected and submitted for laboratory analysis. The temporary monitoring wells were then abandoned after sample collection. The results from monitoring wells MW1 and MW3 indicated that no detections of VOCs were present in groundwater at those locations. However, one water sample result collected from MW2, located on the southeast comer of the property, indicated the presence of 5 ug/L of tetrachloroethylene (PCE) in groundwater. The Wisconsin Administration

Code ch. NR140, groundwater enforcement standard (ES) for PCE is 5 ug/L.

Subsequent limited site assessment activities involved completing three additional soil borings to below the water table and constructing three NR 141 compliant groundwater monitoring wells. Five soil samples were collected from the borings and submitted for laboratory analysis. The analytical results indicate three of the soil samples contained no detectable levels of VOCs, although one sample indicated low levels of methylene chloride present (which is likely a laboratory contaminant), and one sample found that 0.32 mg/kg of PCE was present. This sample with PCE was collected from 5-7 ft below ground surface (bgs). A second sample taken from the same boring, at 35-37 ft bgs, did not contain detectable levels of PCE.

The water table below the site is located approximately 35 to 40 ft bgs. Groundwater samples collected from the three NR 141 compliant groundwater monitoring wells indicated the presence of bromodichloromethane at 0.148 ug/L, chloroform at levels ranging from 0.395 to 1.39 ug/L, and PCE at levels ranging from 0.26-4.15 ug/L. None of the VOCs detected were found to exceed their respective NR 140 groundwater enforcement standards during this sampling.

Site Investigation Methods

Principal tasks performed during the site investigation activity in 2018 included:

- Advancement of nine 2-inch diameter direct push soil borings and collection of two soil samples from each boring. Soil samples were analyzed for VOCs (EPA Method 8260B).
- Continuous sampling and field screening of soils in the nine soil borings. Soils were field screened using a photo ionization detector (PID) and flame ionization detector (FID), and soils were logged in accordance with the Unified Soil Classification System (USCS).
- Installation of soil vapor implants in three of the boreholes for field screening of soil vapors with a FID.
- Installation of three vapor pins to collect soil vapor samples. Soil vapor samples were analyzed for the following chlorinated VOCs: tetrachloroethene, trichloroethene, 1,2-dichloroethene (cis and trans), and vinyl chloride (EPA Method TO-15).
- Collection of groundwater grab samples from two of the boreholes (GP-8 and GP-9). Groundwater samples, and a trip blank for quality control purposes, were analyzed for VOCs (EPA Method 8260B).

In performing these tasks, we followed the field procedures and methods described in the October 2018 Site Investigation Work Plan previously submitted to the WDNR, with one deviation:

- A duplicate water sample was not collected or analyzed.

Figure 2 shows all sample locations from this event. Some locations indicated in the Site Investigation Work Plan were modified as needed in response to impediments encountered in the field, such as buried utilities, or to avoid unnecessary blocking of traffic in the Randall Street right-of-way.

Site Investigation Results

Soil Results

Soil Characteristics

In general, site soils consisted of poorly-graded (i.e. well-sorted) sand (SP). Some thinner strata or lenses consisted of fine-grained, poorly-graded sands with silt (SP-SM). Deeper strata generally consisted of coarse-grained, poorly-graded sand with gravel (SP), possibly ranging to gravel with sand (GP or GW). The 2-inch diameter of the sampling rod limits proper observation of grain sizes in the gravel range and above, and sieve testing was not conducted to quantitatively classify these soil types.

Bedrock or consolidated materials were not encountered during the investigation. Soil boring logs and borehole abandonment forms from 2018 investigation activities are provided in Appendix B.

Organic Vapor Screening Results

Organic vapor screening of the soil samples produced PID and FID responses ranging from 0 to 2 instrument units (i.e. parts per million isobutylene-equivalent). None of the soil sampled was observed to have an obvious odor such as petroleum or solvents. PID/FID responses were recorded on soil boring logs, which are provided in Appendix B.

Soil Analytical Results

A total of 18 soil samples collected from 9 boring locations (GP-1 through GP-9) were submitted for laboratory analysis of VOCs. A summary of these results is presented as Table 1. Laboratory analytical results are included in Appendix C.

PCE was the only VOC constituent detected during the investigation and was detected in shallow soil samples at five locations (GP-1, GP-2, GP-3, GP-5, and GP-6), each exceeding the NR 720 RCL for the protection of groundwater. PCE concentrations did not exceed RCLs for direct contact. Although the WDNR RCL Spreadsheet indicates that there are cumulative direct contact RCL exceedances in all soil samples, this is due to the laboratory detection limits for three VOC constituents (namely 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane) being above the respective compound-specific direct contact RCLs. PCE was not detected in any soil samples deeper than 10 feet below ground surface.

Extent of Soil Contamination

Each of the five soil samples containing detectable concentrations of PCE are located within the boundaries of the site. PCE was not detected in soil samples collected in City of Eau Claire right-of-way (i.e. GP-4 and GP-9). These results indicate that PCE is present in most of the shallow soils across the site. PCE was detected at GP-3 beneath the footprint of the former building but was not detected in GP-7, which also lies within the footprint of the former building.

The soil analytical results, interpreted in the absence of groundwater analytical data, indicate that the vertical extent of PCE reaches at least 10 feet bgs, at location GP-3, but do not indicate that the groundwater pathway was completed, as deeper soil samples at each of the nine locations did not contain detectable concentrations of PCE. The extent of soil contamination is depicted on Figures 3 and 4.

Groundwater Results

Groundwater Depth and Flow

Groundwater was encountered at an approximate depth of 36 feet bgs during the 2018 investigation activities. Flow direction and hydraulic conductivity cannot be assessed by the limited scope of the 2018 investigation activities. However, previous site investigation data indicates that groundwater flows to the southeast. The hydraulic conductivity of the soil is anticipated to be between 10^{-5} and 10^{-3} cm/s based on the poorly-sorted sands observed at the water table (Fetter, 2001).

Groundwater Analytical Results

PCE was detected at GP-9 at a concentration of 10.4 micrograms per liter (µg/L), which exceeds the NR 140 enforcement standard (ES). Other VOC constituents were not present at detectable concentrations in GP-9.

PCE or other VOC constituents were not detected at GP-8, with the exception of acetone, which was detected at a concentration of 4,330 µg/L, in exceedance of the NR 140 preventive action limit (PAL).

Groundwater analytical results are summarized in Table 2. Laboratory analytical results are included in Appendix C.

Extent of Groundwater Contamination

The extent of PCE and acetone in groundwater cannot be definitively determined at this time due to the limited scope of the 2018 site investigation activities, as well as that of previous investigation activities. However, the results suggest that both contaminants are present within City of Eau Claire right-of-way (i.e. Randall Street). The estimated extent of groundwater contamination is depicted on Figures 4 and 5.

Soil Vapor Results

Sub-Slab Vapor Analytical Results

PCE was detected in two of the three sub-slab vapor sampling locations. Locations VS-1 and VS-2 yielded PCE concentrations of 3.4 micrograms per cubic meter (µg/m^3) and 8.4 µg/m^3, respectively, which are below applicable sub-slab vapor regional screening levels (VRSLs). Other chlorinated VOCs were not detected during the 2018 investigation activities. Vapor analytical results are summarized in Table 3, and the laboratory analytical report is provided in Appendix C.

Vapor Field Screening Results

Field screening results from vapor implants at locations GP-1, GP-4, and GP-5 ranged from 0 to 2 instrument units (parts per million isobutylene-equivalent) and did not indicate significant total organic vapor concentrations. Vapor field screening results are summarized in Table 4.

Potential Receptors

Soil contamination at the site is below NR 720 RCLs for direct contact and therefore does not present a significant direct threat to human health. Additionally, the site is capped by existing asphalt pavement.

PCE in soil vapor is also below applicable VRSLs and given the current use of the site as a parking lot, does not pose a significant risk to human health or the environment at the site. However, the presence of PCE in groundwater at a concentration above the NR 140 ES may provide a mechanism for vapors to migrate and intrude inhabited structures near the site if the groundwater contamination has migrated off site towards properties with structures. The groundwater contamination itself is unlikely to pose a threat due to the lack of downgradient receptors (i.e. there are no downgradient water supply wells), as outlined in the WDNR's 2000 General Liability Clarification Letter.

Conclusions

Based on the results of the 2018 site investigation results, we make the following conclusions:

- Site soils are contaminated with PCE exceeding the NR 720 RCL for the protection of groundwater but below RCL for non-industrial direct contact.

- Groundwater beneath the adjoining City of Eau Claire right-of-way, and the site itself, is impacted by PCE exceeding the NR 140 ES. However, the extent of the plume exceeding the ES is currently unknown and potential impacts to private off-site receptors beyond city right-of-way cannot be ruled out by site investigation efforts conducted to date.

- Groundwater beneath the adjoining City of Eau Claire right-of-way, and likely the site itself, is impacted by acetone exceeding the NR 140 PAL. Analyses of VOCs conducted during previous investigation efforts did not include this constituent and the source of this release has not been confirmed (laboratory cross-contamination is a possibility). Given the concentration below the NR 140 ES and detection at only one location, it is unlikely that the acetone release presents a significant threat to human health or the environment.

- PCE in site soil vapor is below applicable VSRLs and does not currently pose a threat to human health at the site. However, the presence of PCE in groundwater at a concentration above the NR 140 ES may provide a mechanism for vapors to migrate and intrude inhabited structures near the site.

Recommendations

Ayres Associates recommends conducting further investigation as prescribed by the WDNR. A request for technical assistance (WDNR Form 4400-237) and accompanying check for review fees should be submitted to the WDNR along with this report.

Standard of Care

This Site Investigation Report is based on data obtained by Ayres Associates through collection and analysis of soil, soil vapor, and groundwater samples. Soil, soil vapor, and water qualities reported apply only to the specific locations and times at which the work was performed.

Conclusions and recommendations made represent our professional engineering judgment in interpreting these data. Data, computations, and correspondence supporting the information presented in this report are on file at Ayres Associates.

NR 712.09 Submittal Certification

"I, Mitchell C. Banach, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Mitchell C. Banach,
Environmental Scientist

January 2, 2019
Date

"I, Lori A. Rosemore, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

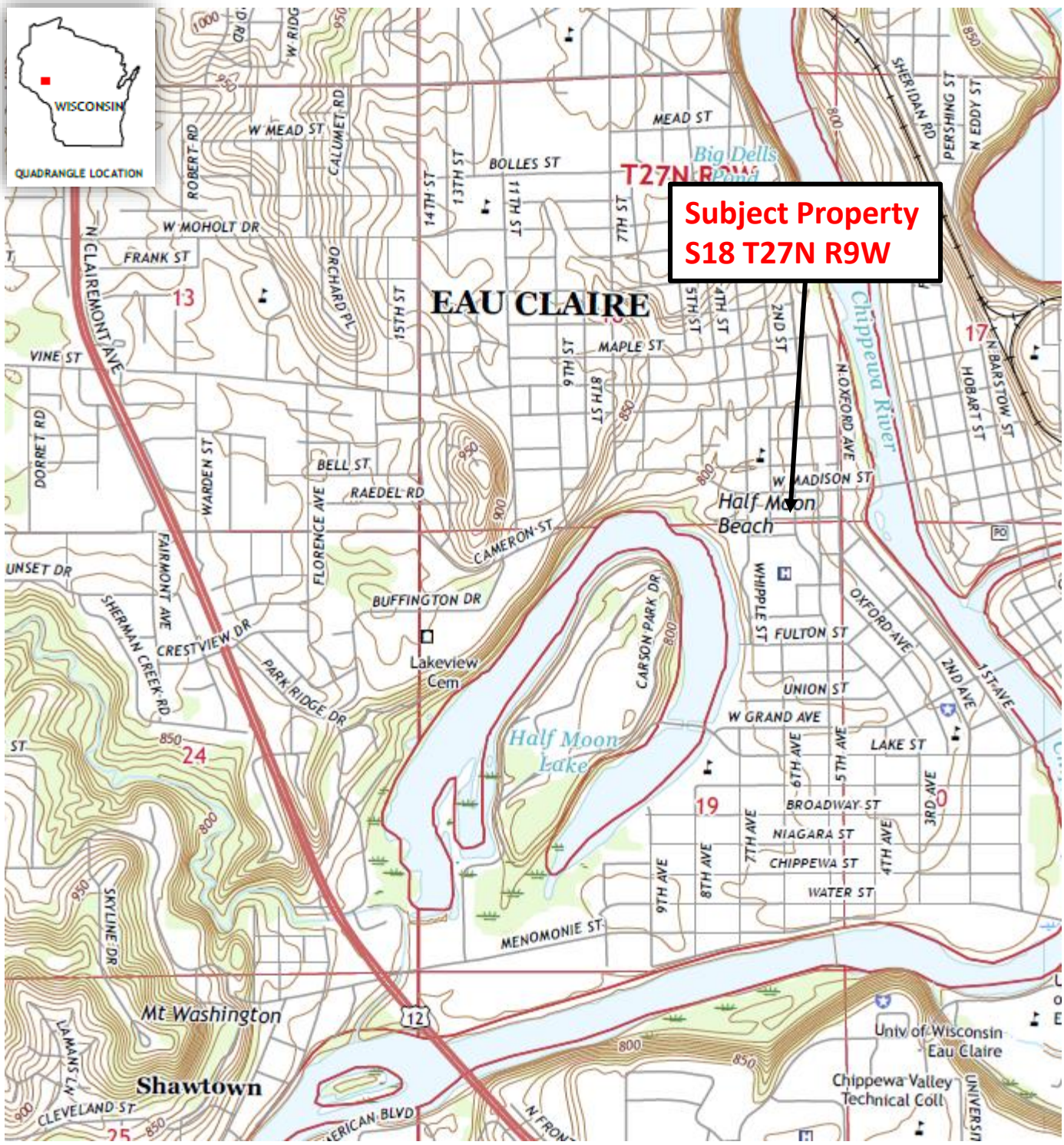
Lori A. Rosemore, PG
Hydrogeologist

January 2, 2019
Date

References

Fetter, C.W. *Applied Hydrogeology.* Fourth ed. Upper Saddle River: Prentice Hall, 2001. Print.

Figures



Source: USGS 7.5-Minute Series Topographic Quadrangle, Eau Claire West, Wisconsin, 2015

N

Figure 1 – Location Map
Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
January 2019

51-0317.00

AYRES ASSOCIATES

Source: City of Eau Claire, WI WGXtreme Mapping, 2013 photo

Figure 2 – Site Detail Map
Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
January 2019

51-0317.00

AYRES ASSOCIATES

Source: City of Eau Claire, WI WGXtreme Mapping, 2013 photo

Figure 3 – Soil Contamination Map
Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
January 2019

51-0317.00

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Figure 4 – Geologic Cross-Section A-A'
Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
January 2019

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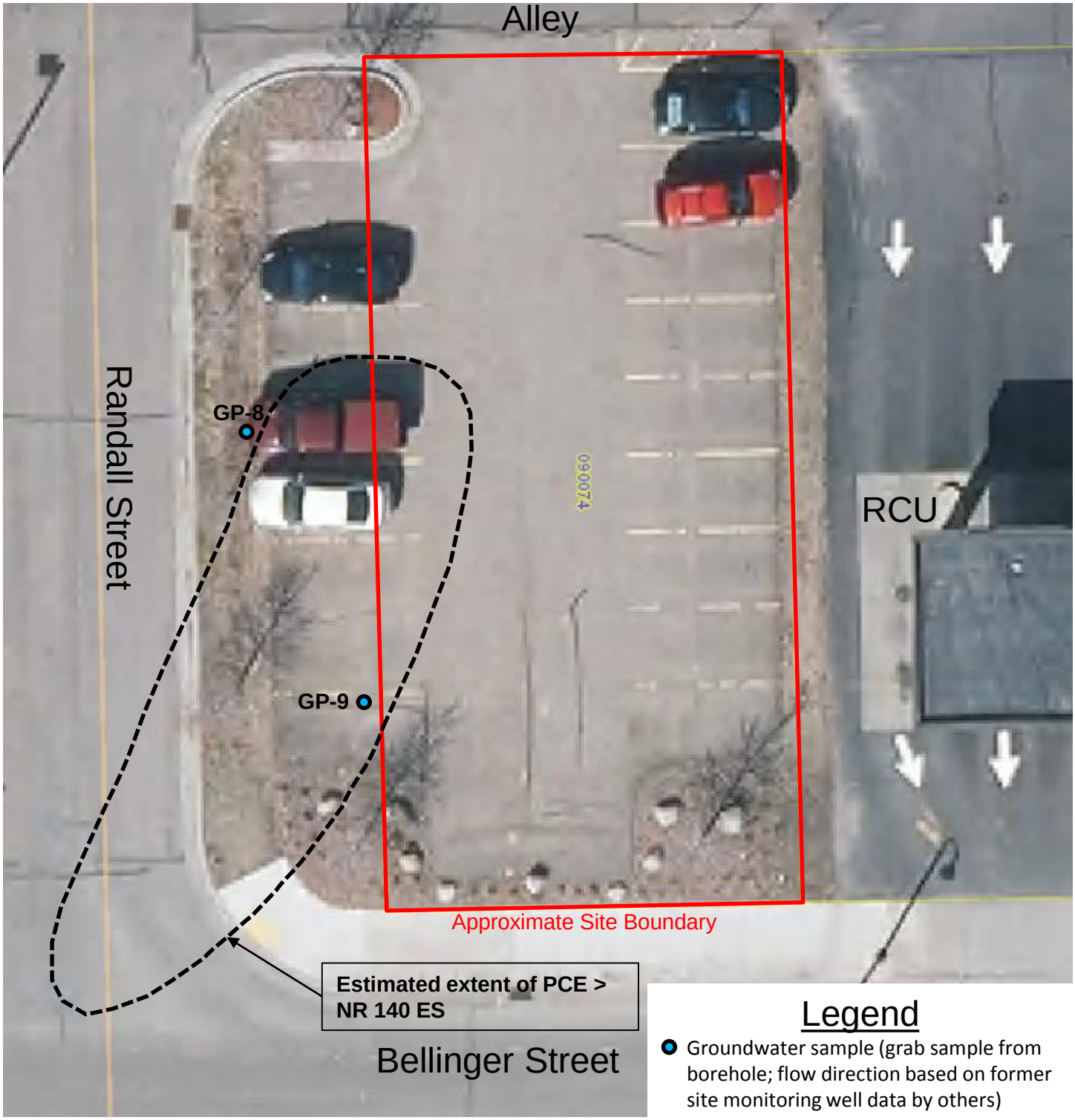
51-0317.00



Source: City of Eau Claire, WI WGXtreme Mapping, 2013 photo

Figure 5 – Groundwater Contamination Map
Former Adleman's Dry Cleaner
1502 Bellinger Street
Eau Claire, Wisconsin
January 2019

51-0317.00

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Tables

Table 1 - Summary of Soil Analytical Results

Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI

BRRTS # 02-18-258807

Non-industrial Direct Contact RCL	Industrial Direct Contact RCL	Ground Water RCL	Back ground Threshold Value	Sample #	GP-1	GP-1	GP-2	GP-2	GP-3	GP-3	GP-4	GP-4
				Sample Depth (ft BGS)	2-4	10-12	2-4	10-12	8-10	10-12	2-4	10-12
				Date Collected	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18
				Depth to Water Table (ft BGS)	36	36	36	36	36	36	36	36
				Soil Type	sand	sand	sand	sand	sand	sand	sand	sand
				VOCs								
2.78	12.3	0.0534	NA	1,1,1,2-Tetrachloroethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
640	640	0.1402	NA	1,1,1-Trichloroethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
0.81	3.6	0.0002	NA	1,1,2,2-Tetrachloroethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1.59	7.01	0.0032	NA	1,1,2-Trichloroethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
910	910	NA	NA	1,1,2-Trichlorotrifluoroethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
5.06	22.2	0.4834	NA	1,1-Dichloroethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
320	1190	0.005	NA	1,1-Dichloroethene	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
NA	NA	NA	NA	1,1-Dichloropropene	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
62.6	934	NA	NA	1,2,3-Trichlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
0.0051	0.109	0.0519	NA	1,2,3-Trichloropropane*	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
24	113	0.408	NA	1,2,4-Trichlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
219	219	NA	NA	1,2,4-Trimethylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
0.0075	0.0923	0.0002	NA	1,2-Dibromo-3-chloropropane*	<0.540	<0.540	<0.547	<0.567	<0.541	<0.514	<0.526	<0.531
0.05	0.221	2.82E-05	NA	1,2-Dibromoethane*	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
376	376	1.168	NA	1,2-Dichlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
0.652	2.87	0.0028	NA	1,2-Dichloroethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
3.4	15	0.0033	NA	1,2-Dichloropropane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
182	182	NA	NA	1,3,5-Trimethylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
297	297	1.1528	NA	1,3-Dichlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1490	1490	NA	NA	1,3-Dichloropropane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
3.74	16.4	0.144	NA	1,4-Dichlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
191	191	NA	NA	2,2-Dichloropropane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
28400	28400	1.6661	NA	2-Butanone (MEK)	<0.270	<0.270	<0.273	<0.283	<0.271	<0.257	<0.263	<0.266
907	907	NA	NA	2-Chlorotoluene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
253	253	NA	NA	4-Chlorotoluene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
3360	3360	0.2252	NA	4-Methyl-2-pentanone (MIBK)	<0.270	<0.270	<0.273	<0.283	<0.271	<0.257	<0.263	<0.266
63400	100000	3.6766	NA	Acetone	<1.08	<1.08	<1.09	<1.13	<1.08	<1.03	<1.05	<1.06
1.04	4.54	NA	NA	Allyl chloride	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
1.6	7.07	0.0051	NA	Benzene	<0.0216	<0.0216	<0.0219	<0.0227	<0.0216	<0.0206	<0.0210	<0.0212
342	679	NA	NA	Bromobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
216	906	NA	NA	Bromochloromethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
0.418	1.83	0.0003	NA	Bromodichloromethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
25.4	113	0.0023	NA	Bromoform	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
9.6	43	0.0051	NA	Bromomethane	<0.540	<0.540	<0.547	<0.567	<0.541	<0.514	<0.526	<0.531
0.916	4.03	0.0039	NA	Carbon tetrachloride	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
370	761	0.1358	NA	Chlorobenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
2120	2120	0.2266	NA	Chloroethane (ethyl chloride)	<0.540	<0.540	<0.547	<0.567	<0.541	<0.514	<0.526	<0.531
0.454	1.98	0.0033	NA	Chloroform	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
159	669	0.0155	NA	Chloromethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
8.28	38.9	0.032	NA	Dibromochloromethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
34	143	NA	NA	Dibromomethane	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
126	530	3.0863	NA	Dichlorodifluoromethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
NA	NA	NA	NA	Dichlorofluoromethane N2	<0.540	<0.540	<0.547	<0.567	<0.541	<0.514	<0.526	<0.531
10100	10100	0.4478	NA	Diethyl ether (Ethyl ether)	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
8.02	35.4	1.57	NA	Ethylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1.63	7.19	NA	NA	Hexachlorobutadiene	<0.270	<0.270	<0.273	<0.283	<0.271	<0.257	<0.263	<0.266
268	268	NA	NA	Isopropylbenzene (cumene)	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
63.8	282	0.027	NA	Methyl tert-butyl ether	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
61.8	1150	0.0026	NA	Methylene chloride	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
5.52	24.1	0.6582	NA	Naphthalene	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
867	867	0.22	NA	Styrene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
33	145	0.0045	NA	Tetrachloroethene	*0.0573*	<0.0540	*0.164*	<0.0567	*0.0751*	<0.0514	<0.0526	<0.0531
23300	100000	0.0222	NA	Tetrahydrofuran	<2.16	<2.16	<2.19	<2.27	<2.16	<2.06	<2.10	<2.12
818	818	1.1072	NA	Toluene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1.3	8.41	0.0036	NA	Trichloroethene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1230	1230	4.4775	NA	Trichlorofluoromethane	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
0.0668	2.08	0.0001	NA	Vinyl chloride	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
260	260	3.96	NA	Xylenes (total)	<0.162	<0.162	<0.164	<0.170	<0.162	<0.154	<0.158	<0.159
156	2340	0.0412	NA	cis-1,2-Dichloroethene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1210	1210	NA	NA	cis-1,3-Dichloropropene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
108	108	NA	NA	n-Butylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
264	264	NA	NA	n-Propylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
162	162	NA	NA	p-Isopropyltoluene	<0.216	<0.216	<0.219	<0.227	<0.216	<0.206	<0.210	<0.212
145	145	NA	NA	sec-Butylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
183	183	NA	NA	tert-Butylbenzene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1560	1850	0.0626	NA	trans-1,2-Dichloroethene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
1510	1510	NA	NA	trans-1,3-Dichloropropene	<0.0540	<0.0540	<0.0547	<0.0567	<0.0541	<0.0514	<0.0526	<0.0531
NA	NA	1.3787	NA	Trimethylbenzenes (total)	<0.108	<0.108	<0.1094	<0.1134	<0.1082	<0.1028	<0.1052	<0.1062
				Cumulative (non-industrial)								
1	NA	NA	NA	No. of Individual Exceedances (DC)	**3***	**3***	**3***	**3***	**3***	**3***	**3***	**3***
1	NA	NA	NA	Cumulative Hazard Index (DC)	0.3237	0.3237	0.329	0.34	0.3243	0.3083	0.3151	0.3181
1.0E-05	NA	NA	NA	Cumulative Cancer Risk (DC)	**1.2E-04**	**1.2E-04**	**1.2E-04**	**1.2E-04**	**1.2E-04**	**1.1E-04**	**1.1E-04**	**1.2E-04**

Notes:

Red font indicates non-industrial direct contact residual contaminant level exceedance or background threshold value exceedance; boxed data exceeds industrial RCL

Italic font indicates groundwater pathway residual contaminant level exceedance or background threshold value exceedance

NA - not applicable or no standard established

< - below limit of detection

N2 - the lab does not hold NELAC/TNI accreditation for this parameter

all units in milligrams per kilogram

* some detection limits are above RCLs resulting in false RCL exceedances and high bias of cumulative data in WDNR RCL Spreadsheet (June 2018)

Table 1 - Summary of Soil Analytical Results
Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI
BRRTS # 02-18-258807

Non-industrial Direct Contact RCL	Industrial Direct Contact RCL	Ground Water RCL	Back ground Threshold Value	Sample #	GP-5	GP-5	GP-6	GP-6	GP-7	GP-7	GP-8	GP-8
				Sample Depth (ft BGS)	2-4	10-12	2-4	10-12	2-4	10-12	14-16	34-36
				Date Collected	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18
				Depth to Water Table (ft BGS)	36	36	36	36	36	36	36	36
				Soil Type	sand	sand	sand	sand	sand	sand	sand	sand
				VOCs								
2.78	12.3	0.0534	NA	1,1,1,2-Tetrachloroethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
640	640	0.1402	NA	1,1,1-Trichloroethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
0.81	3.6	0.0002	NA	1,1,2,2-Tetrachloroethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1.59	7.01	0.0032	NA	1,1,2-Trichloroethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
910	910	NA	NA	1,1,2-Trichlorotrifluoroethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
5.06	22.2	0.4834	NA	1,1-Dichloroethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
320	1190	0.005	NA	1,1-Dichloroethene	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
NA	NA	NA	NA	1,1-Dichloropropene	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
62.6	934	NA	NA	1,2,3-Trichlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
0.0051	0.109	0.0519	NA	1,2,3-Trichloropropane*	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
24	113	0.408	NA	1,2,4-Trichlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
219	219	NA	NA	1,2,4-Trimethylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
0.0075	0.0923	0.0002	NA	1,2-Dibromo-3-chloropropane*	<0.528	<0.528	<0.517	<0.582	<0.517	<0.504	<0.526	<0.578
0.05	0.221	2.82E-05	NA	1,2-Dibromoethane*	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
376	376	1.168	NA	1,2-Dichlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
0.652	2.87	0.0028	NA	1,2-Dichloroethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
3.4	15	0.0033	NA	1,2-Dichloropropane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
182	182	NA	NA	1,3,5-Trimethylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
297	297	1.1528	NA	1,3-Dichlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1490	1490	NA	NA	1,3-Dichloropropane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
3.74	16.4	0.144	NA	1,4-Dichlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
191	191	NA	NA	2,2-Dichloropropane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
28400	28400	1.6661	NA	2-Butanone (MEK)	<0.264	<0.264	<0.258	<0.291	<0.259	<0.252	<0.263	<0.289
907	907	NA	NA	2-Chlorotoluene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
253	253	NA	NA	4-Chlorotoluene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
3360	3360	0.2252	NA	4-Methyl-2-pentanone (MIBK)	<0.264	<0.264	<0.258	<0.291	<0.259	<0.252	<0.263	<0.289
63400	100000	3.6766	NA	Acetone	<1.06	<1.06	<1.03	<1.16	<1.03	<1.01	<1.05	<1.16
1.04	4.54	NA	NA	Allyl chloride	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
1.6	7.07	0.0051	NA	Benzene	<0.0211	<0.0211	<0.0207	<0.0233	<0.0207	<0.0201	<0.0210	<0.0231
342	679	NA	NA	Bromobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
216	906	NA	NA	Bromochloromethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
0.418	1.83	0.0003	NA	Bromodichloromethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
25.4	113	0.0023	NA	Bromoform	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
9.6	43	0.0051	NA	Bromomethane	<0.528	<0.528	<0.517	<0.582	<0.517	<0.504	<0.526	<0.578
0.916	4.03	0.0039	NA	Carbon tetrachloride	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
370	761	0.1358	NA	Chlorobenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
2120	2120	0.2266	NA	Chloroethane (ethyl chloride)	<0.528	<0.528	<0.517	<0.582	<0.517	<0.504	<0.526	<0.578
0.454	1.98	0.0033	NA	Chloroform	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
159	669	0.0155	NA	Chloromethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
8.28	38.9	0.032	NA	Dibromochloromethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
34	143	NA	NA	Dibromomethane	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
126	530	3.0863	NA	Dichlorodifluoromethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
NA	NA	NA	NA	Dichlorofluoromethane N2	<0.528	<0.528	<0.517	<0.582	<0.517	<0.504	<0.526	<0.578
10100	10100	0.4478	NA	Diethyl ether (Ethyl ether)	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
8.02	35.4	1.57	NA	Ethylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1.63	7.19	NA	NA	Hexachlorobutadiene	<0.264	<0.264	<0.258	<0.291	<0.259	<0.252	<0.263	<0.289
268	268	NA	NA	Isopropylbenzene (cumene)	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
63.8	282	0.027	NA	Methyl tert-butyl ether	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
61.8	1150	0.0026	NA	Methylene chloride	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
5.52	24.1	0.6582	NA	Naphthalene	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
867	867	0.22	NA	Styrene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
33	145	0.0045	NA	Tetrachloroethene	*0.250*	<0.0528	*0.147*	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
23300	100000	0.0222	NA	Tetrahydrofuran	<2.11	<2.11	<2.07	<2.33	<2.07	<2.01	<2.10	<2.31
818	818	1.1072	NA	Toluene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1.3	8.41	0.0036	NA	Trichloroethene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1230	1230	4.4775	NA	Trichlorofluoromethane	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
0.0668	2.08	0.0001	NA	Vinyl chloride	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
260	260	3.96	NA	Xylenes (total)	<0.158	<0.158	<0.155	<0.175	<0.155	<0.151	<0.158	<0.174
156	2340	0.0412	NA	cis-1,2-Dichloroethene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1210	1210	NA	NA	cis-1,3-Dichloropropene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
108	108	NA	NA	n-Butylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
264	264	NA	NA	n-Propylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
162	162	NA	NA	p-Isopropyltoluene	<0.211	<0.211	<0.207	<0.233	<0.207	<0.201	<0.210	<0.231
145	145	NA	NA	sec-Butylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
183	183	NA	NA	tert-Butylbenzene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1560	1850	0.0626	NA	trans-1,2-Dichloroethene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
1510	1510	NA	NA	trans-1,3-Dichloropropene	<0.0528	<0.0528	<0.0517	<0.0582	<0.0517	<0.0504	<0.0526	<0.0578
NA	NA	1.3787	NA	Trimethylbenzenes (total)	<0.1056	<0.1056	<0.1034	<0.1164	<0.1034	<0.1008	<0.1052	<0.1156
				Cumulative (non-industrial)								
1	NA	NA	NA	No. of Individual Exceedances (DC)	**3***	**3***	**3***	**3***	**3***	**3***	**3***	**3***
1	NA	NA	NA	Cumulative Hazard Index (DC)	0.3182	0.3164	0.3109	0.349	0.31	0.3018	0.3151	0.3464
1.0E-05	NA	NA	NA	Cumulative Cancer Risk (DC)	**1.1E-04**	**1.1E-04**	**1.1E-04**	**1.3E-04**	**1.1E-04**	**1.1E-04**	**1.1E-04**	**1.3E-04**

Notes:

Red font indicates non-industrial direct contact residual contaminant level exceedance or background threshold value exceedance; boxed data exceeds industrial RCL

Italic font indicates groundwater pathway residual contaminant level exceedance or background threshold value exceedance

NA - not applicable or no standard established
< - below limit of detection
N2 - the lab does not hold NELAC/TNI accreditation for this parameter
all units in milligrams per kilogram

* some detection limits are above RCLs resulting in false RCL exceedances and high bias of cumulative data in WDNR RCL Spreadsheet (June 2018)

Table 1 - Summary of Soil Analytical Results

Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI

BRRTS # 02-18-258807

Non-industrial Direct Contact RCL	Industrial Direct Contact RCL	Ground Water RCL	Back ground Threshold Value	Sample #	GP-9	GP-9
				Sample Depth (ft BGS)	2-4	34-36
				Date Collected	11/16/18	11/16/18
				Depth to Water Table (ft BGS)	36	36
				Soil Type	sand	sand
				VOCs		
2.78	12.3	0.0534	NA	1,1,1,2-Tetrachloroethane	<0.0513	<0.0564
640	640	0.1402	NA	1,1,1-Trichloroethane	<0.205	<0.226
0.81	3.6	0.0002	NA	1,1,2,2-Tetrachloroethane	<0.0513	<0.0564
1.59	7.01	0.0032	NA	1,1,2-Trichloroethane	<0.0513	<0.0564
910	910	NA	NA	1,1,2-Trichlorotrifluoroethane	<0.205	<0.226
5.06	22.2	0.4834	NA	1,1-Dichloroethane	<0.0513	<0.0564
320	1190	0.005	NA	1,1-Dichloroethene	<0.205	<0.226
NA	NA	NA	NA	1,1-Dichloropropene	<0.205	<0.226
62.6	934	NA	NA	1,2,3-Trichlorobenzene	<0.0513	<0.0564
0.0051	0.109	0.0519	NA	1,2,3-Trichloropropane*	<0.205	<0.226
24	113	0.408	NA	1,2,4-Trichlorobenzene	<0.0513	<0.0564
219	219	NA	NA	1,2,4-Trimethylbenzene	<0.0513	<0.0564
0.0075	0.0923	0.0002	NA	1,2-Dibromo-3-chloropropane*	<0.513	<0.564
0.05	0.221	2.82E-05	NA	1,2-Dibromoethane*	<0.0513	<0.0564
376	376	1.168	NA	1,2-Dichlorobenzene	<0.0513	<0.0564
0.652	2.87	0.0028	NA	1,2-Dichloroethane	<0.0513	<0.0564
3.4	15	0.0033	NA	1,2-Dichloropropane	<0.0513	<0.0564
182	182	NA	NA	1,3,5-Trimethylbenzene	<0.0513	<0.0564
297	297	1.1528	NA	1,3-Dichlorobenzene	<0.0513	<0.0564
1490	1490	NA	NA	1,3-Dichloropropane	<0.0513	<0.0564
3.74	16.4	0.144	NA	1,4-Dichlorobenzene	<0.0513	<0.0564
191	191	NA	NA	2,2-Dichloropropane	<0.205	<0.226
28400	28400	1.6661	NA	2-Butanone (MEK)	<0.257	<0.282
907	907	NA	NA	2-Chlorotoluene	<0.0513	<0.0564
253	253	NA	NA	4-Chlorotoluene	<0.0513	<0.0564
3360	3360	0.2252	NA	4-Methyl-2-pentanone (MIBK)	<0.257	<0.282
63400	100000	3.6766	NA	Acetone	<1.03	<1.13
1.04	4.54	NA	NA	Allyl chloride	<0.205	<0.226
1.6	7.07	0.0051	NA	Benzene	<0.0205	<0.0226
342	679	NA	NA	Bromobenzene	<0.0513	<0.0564
216	906	NA	NA	Bromochloromethane	<0.0513	<0.0564
0.418	1.83	0.0003	NA	Bromodichloromethane	<0.0513	<0.0564
25.4	113	0.0023	NA	Bromoform	<0.205	<0.226
9.6	43	0.0051	NA	Bromomethane	<0.513	<0.564
0.916	4.03	0.0039	NA	Carbon tetrachloride	<0.0513	<0.0564
370	761	0.1358	NA	Chlorobenzene	<0.0513	<0.0564
2120	2120	0.2266	NA	Chloroethane (ethyl chloride)	<0.513	<0.564
0.454	1.98	0.0033	NA	Chloroform	<0.0513	<0.0564
159	669	0.0155	NA	Chloromethane	<0.205	<0.226
8.28	38.9	0.032	NA	Dibromochloromethane	<0.205	<0.226
34	143	NA	NA	Dibromomethane	<0.0513	<0.0564
126	530	3.0863	NA	Dichlorodifluoromethane	<0.205	<0.226
NA	NA	NA	NA	Dichlorofluoromethane N2	<0.513	<0.564
10100	10100	0.4478	NA	Diethyl ether (Ethyl ether)	<0.205	<0.226
8.02	35.4	1.57	NA	Ethylbenzene	<0.0513	<0.0564
1.63	7.19	NA	NA	Hexachlorobutadiene	<0.257	<0.282
268	268	NA	NA	Isopropylbenzene (cumene)	<0.0513	<0.0564
63.8	282	0.027	NA	Methyl tert-butyl ether	<0.0513	<0.0564
61.8	1150	0.0026	NA	Methylene chloride	<0.205	<0.226
5.52	24.1	0.6582	NA	Naphthalene	<0.205	<0.226
867	867	0.22	NA	Styrene	<0.0513	<0.0564
33	145	0.0045	NA	Tetrachloroethene	<0.0513	<0.0564
23300	100000	0.0222	NA	Tetrahydrofuran	<2.05	<2.26
818	818	1.1072	NA	Toluene	<0.0513	<0.0564
1.3	8.41	0.0036	NA	Trichloroethene	<0.0513	<0.0564
1230	1230	4.4775	NA	Trichlorofluoromethane	<0.205	<0.226
0.0668	2.08	0.0001	NA	Vinyl chloride	<0.0513	<0.0564
260	260	3.96	NA	Xylenes (total)	<0.154	<0.169
156	2340	0.0412	NA	cis-1,2-Dichloroethene	<0.0513	<0.0564
1210	1210	NA	NA	cis-1,3-Dichloropropene	<0.0513	<0.0564
108	108	NA	NA	n-Butylbenzene	<0.0513	<0.0564
264	264	NA	NA	n-Propylbenzene	<0.0513	<0.0564
162	162	NA	NA	p-Isopropyltoluene	<0.205	<0.226
145	145	NA	NA	sec-Butylbenzene	<0.0513	<0.0564
183	183	NA	NA	tert-Butylbenzene	<0.0513	<0.0564
1560	1850	0.0626	NA	trans-1,2-Dichloroethene	<0.0513	<0.0564
1510	1510	NA	NA	trans-1,3-Dichloropropene	<0.0513	<0.0564
NA	NA	1.3787	NA	Trimethylbenzenes (total)	<0.1026	<0.1128
				Cumulative (non-industrial)		
1	NA	NA	NA	No. of Individual Exceedances (DC)	**3***	**3***
1	NA	NA	NA	Cumulative Hazard Index (DC)	0.3074	0.3383
1.0E-05	NA	NA	NA	Cumulative Cancer Risk (DC)	**1.1E-04**	**1.2E-04**

Notes:

Red font indicates non-industrial direct contact residual contaminant level exceedance or background threshold value exceedance; boxed data exceeds industrial RCL

Italic font indicates groundwater pathway residual contaminant level exceedance or background threshold value exceedance

NA - not applicable or no standard established

< - below limit of detection

N2 - the lab does not hold NELAC/TNI accreditation for this parameter

all units in milligrams per kilogram

* some detection limits are above RCLs resulting in false RCL exceedances and high bias of cumulative data in WDNR RCL Spreadsheet (June 2018)

Table 2 - Summary of Groundwater Analytical Results

Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI

BRRTS # 02-18-258807

NR 140 PAL	NR 140 ES	Sample #	GP-8	GP-9	Trip Blank
		Date Collected	11/16/18	11/16/18	NA
		VOCs			
7	70	1,1,1,2-Tetrachloroethane	<5.0	<1.0	<1.0
40	200	1,1,1-Trichloroethane	<5.0	<1.0	<1.0
0.02	0.2	1,1,2,2-Tetrachloroethane	<5.0	<1.0	<1.0
0.5	5	1,1,2-Trichloroethane	<5.0	<1.0	<1.0
NA	NA	1,1,2-Trichlorotrifluoroethane	<5.0	<1.0	<1.0
85	850	1,1-Dichloroethane	<5.0	<1.0	<1.0
0.7	7	1,1-Dichloroethene	<5.0	<1.0	<1.0
NA	NA	1,1-Dichloropropene	<5.0	<1.0	<1.0
NA	NA	1,2,3-Trichlorobenzene	<5.0	<1.0	<1.0
12	60	1,2,3-Trichloropropane	<20.0	<4.0	<4.0
14	70	1,2,4-Trichlorobenzene	<5.0	<1.0	<1.0
NA	NA	1,2,4-Trimethylbenzene	<5.0	<1.0	<1.0
0.02	0.2	1,2-Dibromo-3-chloropropane	<50.0	<10.0	<10.0
0.005	0.05	1,2-Dibromoethane	<5.0	<1.0	<1.0
60	600	1,2-Dichlorobenzene	<5.0	<1.0	<1.0
0.5	5	1,2-Dichloroethane	<5.0	<1.0	<1.0
0.5	5	1,2-Dichloropropane	<20.0	<4.0	<4.0
NA	NA	1,3,5-Trimethylbenzene	<5.0	<1.0	<1.0
120	600	1,3-Dichlorobenzene	<5.0	<1.0	<1.0
NA	NA	1,3-Dichloropropane	<5.0	<1.0	<1.0
15	75	1,4-Dichlorobenzene	<5.0	<1.0	<1.0
NA	NA	2,2-Dichloropropane	<20.0	<4.0	<4.0
800	4,000	2-Butanone (MEK)	<25.0	<5.0	<5.0
NA	NA	2-Chlorotoluene	<5.0	<1.0	<1.0
NA	NA	4-Chlorotoluene	<5.0	<1.0	<1.0
50	500	4-Methyl-2-pentanone (MIBK)	<25.0	<5.0	<5.0
1,800	9,000	Acetone	*4330*	<20.0	<20.0
NA	NA	Allyl chloride	<20.0	<4.0	<4.0
0.5	5	Benzene	<5.0	<1.0	<1.0
NA	NA	Bromobenzene	<5.0	<1.0	<1.0
NA	NA	Bromochloromethane	<5.0	<1.0	<1.0
0.06	0.6	Bromodichloromethane	<5.0	<1.0	<1.0
0.44	4.4	Bromoform	<20.0	<4.0	<4.0
1	10	Bromomethane	<20.0	<4.0	<4.0
0.5	5	Carbon tetrachloride	<5.0	<1.0	<1.0
NA	NA	Chlorobenzene	<5.0	<1.0	<1.0
80	400	Chloroethane	<5.0	<1.0	<1.0
0.6	6	Chloroform	<20.0	<4.0	<4.0
3	30	Chloromethane	<20.0	<4.0	<4.0
6	60	Dibromochloromethane	<5.0	<1.0	<1.0
NA	NA	Dibromomethane	<20.0	<4.0	<4.0
200	1000	Dichlorodifluoromethane	<5.0	<1.0	<1.0
NA	NA	Dichlorofluoromethane N2	<5.0	<1.0	<1.0
NA	NA	Diisopropyl ether (ethyl ether)	<20.0	<4.0	<4.0
140	700	Ethylbenzene	<5.0	<1.0	<1.0
NA	NA	Hexachlorobutadiene	<5.0	<1.0	<1.0
NA	NA	Isopropylbenzene	<5.0	<1.0	<1.0
12	60	Methyl tert-butyl ether	<5.0	<1.0	<1.0
0.5	5	Methylene chloride	<20.0	<4.0	<4.0
10	100	Naphthalene	<20.0	<4.0	<4.0
10	100	Styrene	<5.0	<1.0	<1.0
0.5	5	Tetrachloroethene	<5.0	**10.4**	<1.0
10	50	Tetrahydrofuran	<50.0	<10.0	<10.0
160	800	Toluene	<5.0	<1.0	<1.0
0.5	5	Trichloroethene	<2.0	<0.40	<0.40
NA	NA	Trichlorofluoromethane	<5.0	<1.0	<1.0
0.02	0.2	Vinyl chloride	<1.0	<0.20	<0.20
400	2,000	Xylenes (total)	<15.0	<3.0	<3.0
7	70	cis-1,2-Dichloroethene	<5.0	<1.0	<1.0
0.04	0.4	cis-1,3-Dichloropropene	<20.0	<4.0	<4.0
NA	NA	n-Butylbenzene	<5.0	<1.0	<1.0
NA	NA	n-Propylbenzene	<5.0	<1.0	<1.0
NA	NA	p-Isopropyltoluene	<5.0	<1.0	<1.0
NA	NA	sec-Butylbenzene	<5.0	<1.0	<1.0
NA	NA	tert-Butylbenzene	<5.0	<1.0	<1.0
20	100	trans-1,2-Dichloroethene	<5.0	<1.0	<1.0
0.04	0.4	trans-1,3-Dichloropropene	<20.0	<4.0	<4.0

Notes:

Red font indicates NR 140 Enforcement Standard exceedance

Italic font indicates NR 140 Preventive Action Limit exceedance

NA - not applicable or no standard established

< - below limit of detection

N2 - the lab does not hold NELAC/TNI accreditation for this parameter

all units in micrograms per liter

Table 3 - Summary of Sub-Slab Vapor Analytical Results

Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI

BRRTS # 02-18-258807

Sub-Slab Vapor VRSLs			Sample	VS-1	VS-2	VS-3
			Date Collected	11/16/18	11/16/18	11/16/18
Residential	Small Commercial	Large Commercial/Industrial	CVOCs			
7,000	29,000	88,000	1,1-Dichloroethene	<1.4	<1.4	<1.4
1,400	6,000	18,000	Tetrachloroethene	3.4	8.4	<1.2
70	290	880	Trichloroethene	<0.96	<0.98	<0.96
57	930	2,800	Vinyl chloride	<0.46	<0.47	<0.46
NA	NA	NA	cis-1,2-Dichloroethene	<1.4	<1.4	<1.4
NA	NA	NA	trans-1,2-Dichloroethene	<1.4	<1.4	<1.4

Notes:

VRSL - vapor risk screening level

Boxed red font indicates large commercial/industrial VSRL exceedance

Red font indicates small commercial VSRL exceedance

Italic red font indicates residential VRSL exceedance

NA - not applicable or no standard established

< - below limit of detection

N2 - the lab does not hold NELAC/TNI accreditation for this parameter

all units in micrograms per cubic meter

Table 4 - Summary of Sub-Slab Vapor Field Screening Results

Former Adleman's Dry Cleaner, 1502 Bellinger St, Eau Claire, WI

BRRTS # 02-18-258807

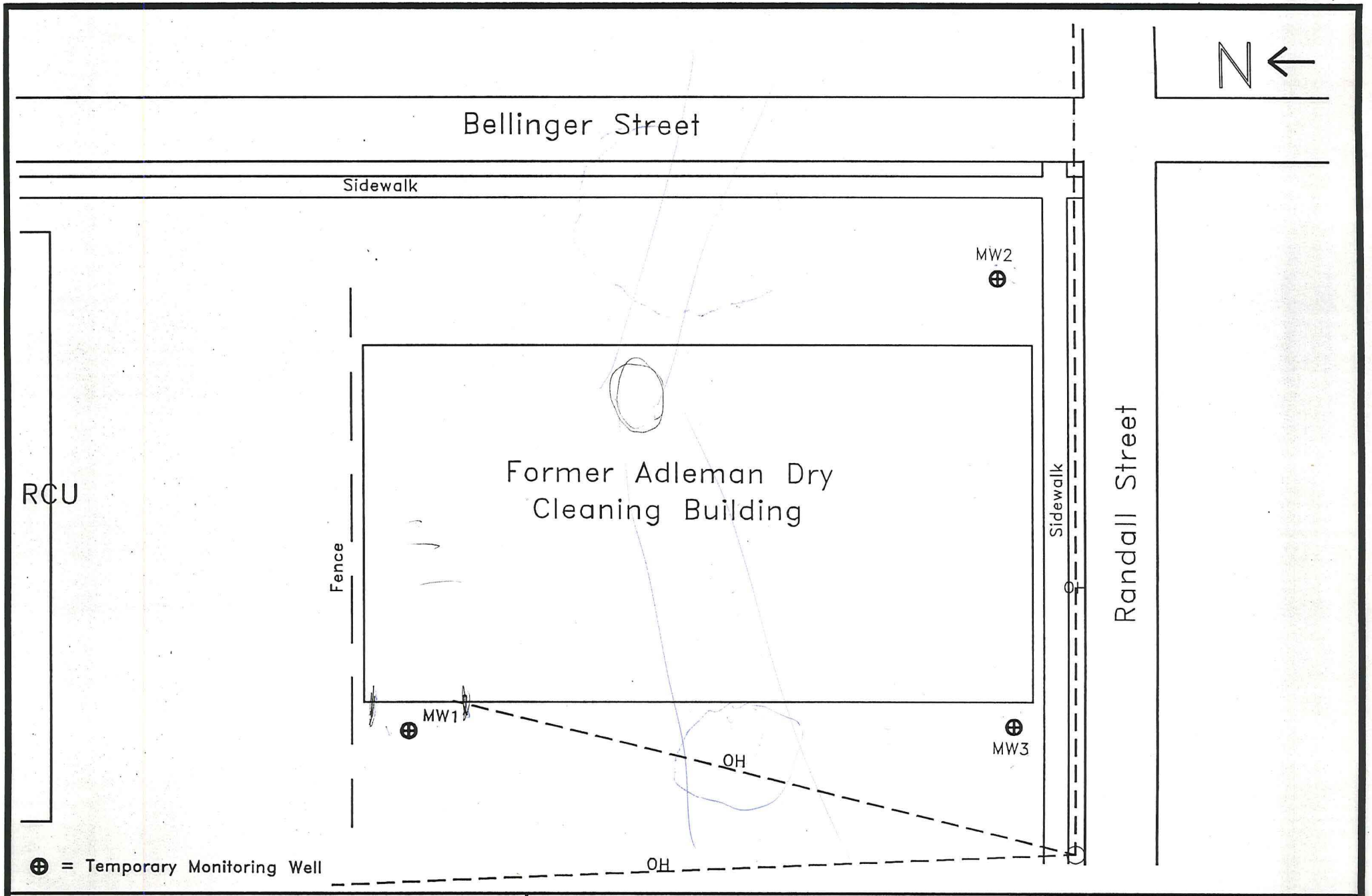
Sample	GP-1	GP-4	GP-5
Date	11/16/18	11/16/18	11/16/18
Flame ionization detector field screening result	1	2	0
Photo ionization detector field screening result	1	2	1

Notes:

All numbers in instrument units (parts per million isobutylene equivalent)

Appendix A

Previous Investigation Tables & Figures



midwest engineering services, inc.

Figure 1
Site Diagram
Former Adleman Dry Cleaning Site
Eau Claire, Wisconsin

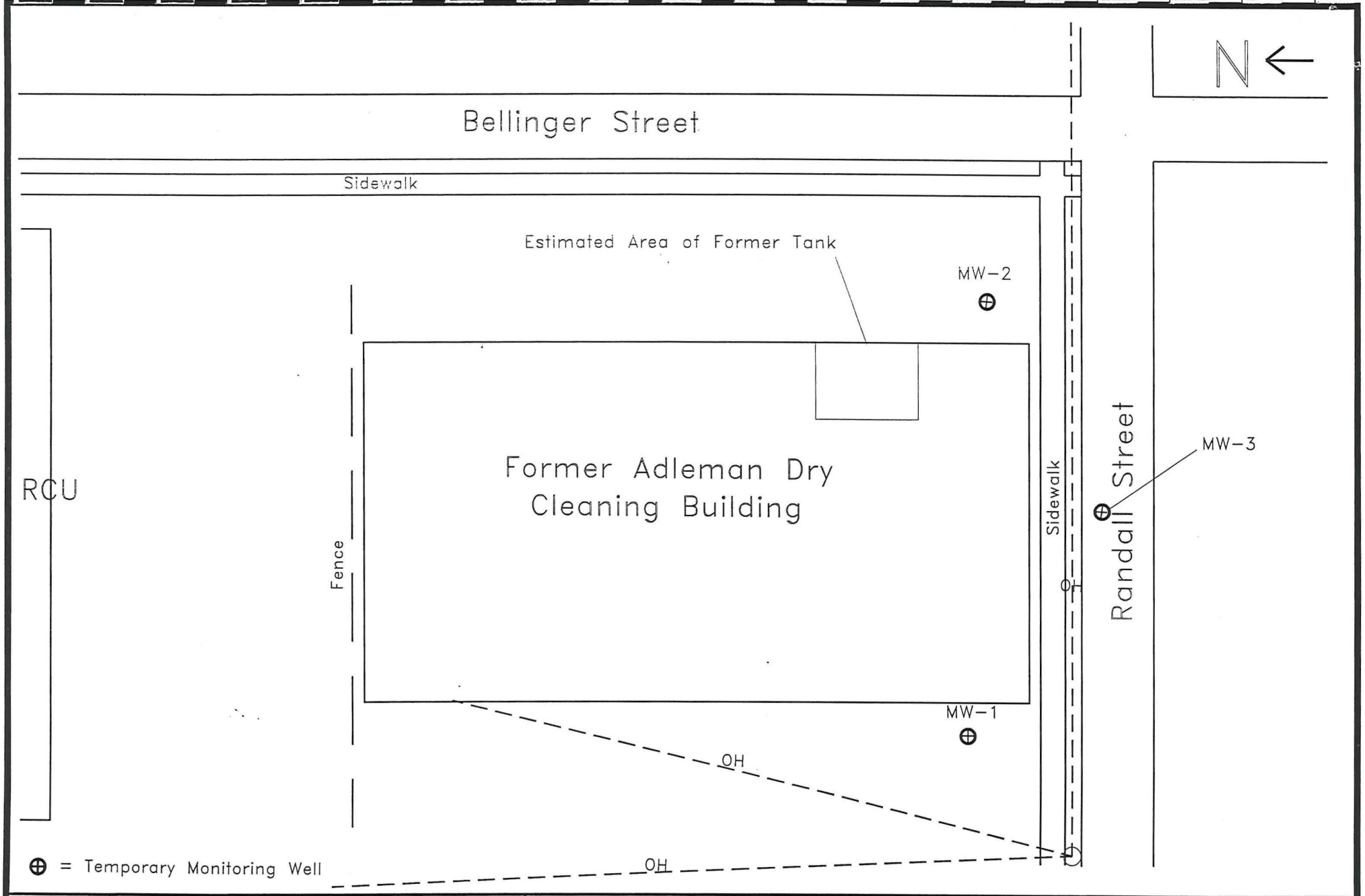
Project No: 4-01003

Prepared: 02-29-2000

Table 2
Summary of Groundwater Analytical Results
Former Adleman Dry Cleaning Site
Eau Claire, Wisconsin

Parameter	ES	PAL	R.L.	Units	MW1	MW2	MW3
Date					02/01/2000	02/01/2000	02/01/2000
VOC Parameters							
Benzene	5	0.5	2	µg/l	X	X	X
Toluene	343	68.6	2	µg/l	X	X	X
Ethylbenzene	700	140	2	µg/l	X	X	X
Total Xylenes	620	124	2	µg/l	X	X	X
1,2,4-Trimethylbenzene	-	-	2	µg/l	X	X	X
1,3,5-Trimethylbenzene	-	-	2	µg/l	X	X	X
Bromoform	4.4	0.44	10	µg/l	X	X	X
Bromomethane	10	1	2	µg/l	X	X	X
Chloroethane	400	80	2	µg/l	X	X	X
Chloroform	6	0.6	2	µg/l	X	X	X
Chloromethane	3	0.3	2	µg/l	X	X	X
1,2-Dibromoethane	0.05	0.005	2	µg/l	X	X	X
Dibromochloromethane	60	6	2	µg/l	X	X	X
1,2-Dibromo-3-chloropropane	0.2	0.02	2	µg/l	X	X	X
1,2-Dichlorobenzene	600	60	2	µg/l	X	X	X
1,3-Dichlorobenzene	1,250	125	2	µg/l	X	X	X
1,4-Dichlorobenzene	75	15	2	µg/l	X	X	X
Dichlorodifluoromethane	1,000	200	2	µg/l	X	X	X
1,1-Dichloroethane	850	85	2	µg/l	X	X	X
1,2-Dichloroethane	5	0.5	2	µg/l	X	X	X
1,1-Dichloroethene	7	0.7	2	µg/l	X	X	X
cis-1,2-Dichloroethene	70	7	2	µg/l	X	X	X
trans-1,2-Dichloroethene	100	20	2	µg/l	X	X	X
Methylene Chloride	5	0.5	10	µg/l	X	X	X
Naphthalene	40	8	2	µg/l	X	X	X
1,1,2,2-Tetrachloroethane	0.2	0.02	2	µg/l	X	X	X
Tetrachloroethene *	5	0.5	4	µg/l	X	5 ✓	X
1,1,1-Trichloroethane	200	40	2	µg/l	X	X	X
1,1,2-Trichloroethane	5	0.5	2	µg/l	X	X	X
Trichloroethene	5	0.5	2	µg/l	X	X	X
Vinyl Chloride	0.2	0.02	2	µg/l	X	X	X

Notes:
ES = NR140.10 Enforcement Standard
PAL = NR140.10 Preventive Action Limit
R.L. = Reporting Limit
X = Not Detected
NA = Not Analyzed



midwest engineering services, inc.

Figure 1
Site Diagram
Former Adleman Dry Cleaning Site
Eau Claire, Wisconsin

Project No: 4-01003

Prepared: 08-03-2000

Table 1							
Summary of Soil Analytical Results							
Former Adleman Dry Cleaning Site							
Eau Claire, Wisconsin							
Parameter	**RCL**	**Units**	**MW1**		**MW2**		**MW3**
Date			**06/30/2000**		**06/30/2000**		**07/14/2000**
Depth (ft)		mg/kg	**15-17'**	**30-32'**	**5-7**	**35-37'**	**30-32'**
VOC Parameters							
Benzene	5.5	µg/kg	X	X	X	X	X
Toluene	1500	µg/kg	X	X	X	X	X
Ethylbenzene	2900	µg/kg	X	X	X	X	X
Total Xylenes	4100	µg/kg	X	X	X	X	X
Methyl-Tert-Butyl-Ether		µg/kg	X	X	X	X	X
1,2,4-Trimethylbenzene		µg/kg	X	X	X	X	X
1,3,5-Trimethylbenzene		µg/kg	X	X	X	X	X
1,4-Dichlorobenzene		µg/kg	X	X	X	X	X
1,2-Dibromoethane		µg/kg	X	X	X	X	X
n-Butylbenzene		µg/kg	X	X	X	X	X
sec-Butylbenzene		µg/kg	X	X	X	X	X
tert-Butylbenzene		µg/kg	X	X	X	X	X
p-Isopropyltoluene		µg/kg	X	X	X	X	X
Isopropylbenzene		µg/kg	X	X	X	X	X
Methylene Chloride		µg/kg	0.028	X	X	X	X
Naphthalene		µg/kg	X	X	X	X	X
Tetrachloroethylene		µg/kg	X	X	0.32	X	X
Vinyl Chloride		µg/kg	X	X	X	X	X
n-Propylbenzene		µg/kg	X	X	X	X	X
Notes:							
RCL = NR720.09(04) Residual Contaminant Level							
X = Not Detected							
NA = Not Analyzed							
Exceeds RCL							
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Table 2						
Summary of Groundwater Analytical Results						
Former Adleman Dry Cleaning Site						
Eau Claire, Wisconsin						
Parameter	**ES**	**PAL**	**Units**	**MW1**	**MW2**	**MW3**
Date				**07/27/2000**	**07/27/2000**	**07/27/2000**
VOC Parameters						
Benzene	5	0.5	µg/l	X	X	X
Toluene	343	68.6	µg/l	X	X	X
Ethylbenzene	700	140	µg/l	X	X	X
Total Xylenes	620	124	µg/l	X	X	X
1,2,4-Trimethylbenzene	-	-	µg/l	X	X	X
1,3,5-Trimethylbenzene	-	-	µg/l	X	X	X
Bromodichloromethane	0.6	0.06	µg/l	X	0.148	X
Chloroethane	400	80	µg/l	X	X	X
Chloroform	6	0.6	µg/l	1.03	1.39	0.395
Chloromethane	3	0.3	µg/l	X	X	X
1,2-Dibromoethane	0.05	0.005	µg/l	X	X	X
Dibromochloromethane	60	6	µg/l	X	X	X
1,2-Dichlorobenzene	600	60	µg/l	X	X	X
1,3-Dichlorobenzene	1,250	125	µg/l	X	X	X
1,4-Dichlorobenzene	75	15	µg/l	X	X	X
Dichlorodifluoromethane	1,000	200	µg/l	X	X	X
1,1-Dichloroethane	850	85	µg/l	X	X	X
1,2-Dichloroethane	5	0.5	µg/l	X	X	X
1,1-Dichloroethene	7	0.7	µg/l	X	X	X
cis-1,2-Dichloroethene	70	7	µg/l	X	X	X
trans-1,2-Dichloroethene	100	20	µg/l	X	X	X
Methylene Chloride	5	0.5	µg/l	X	X	X
Naphthalene	40	8	µg/l	X	X	X
1,1,2,2-Tetrachloroethane	0.2	0.02	µg/l	X	X	X
Tetrachloroethene	5	0.5	µg/l	0.26	4.15	4.15
1,1,1-Trichloroethane	200	40	µg/l	X	X	X
1,1,2-Trichloroethane	5	0.5	µg/l	X	X	X
Trichloroethene	5	0.5	µg/l	X	X	X
Vinyl Chloride	0.2	0.02	µg/l	X	X	X
Notes:						
ES = NR140.10 Enforcement Standard						
PAL = NR140.10 Preventive Action Limit						
X = No Detect						
µg/l = Micrograms per liter = parts per billion (ppb)						

Appendix B

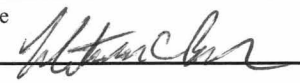
Soil Boring Logs and Borehole Abandonment Forms

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-1
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. _____ State Well Id No. _____ Well Name	Final Static Water Level	Surface Elevation Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S'E 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 33.41" N Long 91° 30' 42.30 W	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-0	asphalt										
1 ps	36/48		-1	d. brown silty sand	SP-SM			0/0						Sample 2-4
			-2											
			-3					0/0						
			-4	M brown sandstone d. brown sand	SP			0/0						
2 ps	26/48		-5											
			-6					0/0						
			-7	yellow sandstone, trace wood										
			-8	red-d. brown sand	SP			0/0						
3 ps	34/48		-9											
			-10	M. brown coarse sand w/ gravel, moist	SP			0/0						Sample 10-12
			-11											
			-12	End of Boring										
			-13											
			-14											
			-15											
			-16											
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

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

Signature	Firm
	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-2
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 55.22" N Long 91° 30' 42.50" W	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire	County Code: 18
		Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
1 PS	24/48		0-1	asphalt										
			1-2	d brown sand w/ gravel	SP			0/1						Sample 2-4
			2-3	d brown silty sand	SP-SM			0/1						
			3-4	M. brown sand	SP									
2 PS	24/48		4-5					0/1						
			5-6											
			6-7					0/1						
			7-8											
3	34/48		8-9					0/1						
			9-10	d brown silty sand	SP-SM									Sample 10-12
			10-11	M brown sand w/ gravel	SP			0/1						
			11-12	End of Boring										
			12-13											
			13-14											
			14-15											
			15-16											
			16-17											
			17-18											
			18-19											
			19-20											
			20-21											
			21-22											
			22-23											
			23-24											
			24-25											

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

Signature	Firm
Nathan C Ayres	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-3
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 53.16" N Long 91° 30 42.10" W	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
1 PS	12/48		-1 -2 -3 -4	asphalt D. brown sand w/gravel	SP			0/1						
2 PS	9/48		-5 -6 -7 -8					0/1						
3 PS	32/48		-9 -10 -11 -12	M. brown sand w/gravel	SP			0/2 0/1						Sample 5-10 Sample 10-12
			-13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25	End of Boring										

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

Signature	Firm
Matthew Sue	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Former Adleman's Dry Cleaner		GP-4

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	11/16/18 M/D/Y	11/16/18 M/D/Y	direct push (geoprobe)

State Unique Well No.	State Well Id No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Dia.
					2 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐	Lat./Long	Local Grid Location (If applicable)
State Plane ____ N, ____ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 53.05 N Long 91° 30' 42.26 W	☐ N ☐ S Feet ☐ E ☐ W Feet

Facility Id.	County	County Code	Civil Town/City/or Village
618041490	Eau Claire	18	City of Eau Claire

SAMPLE Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
1 PS	24/48		0–1	asphalt / d. brown sand w/ gravel	SP			0/2						
			2–4	M. brown sand	SP			0/2						Sample 2-4
2 PS	24/48		4–6	M brown silty sand	SP-SM			0/2						
			6–8	M. brown sand	SP			0/2						
3 PS	33/48		8–10					0/2						
			10–12	M. brown sand w/ gravel	SP			0/2						Sample 10-12
			12	End of Boring										

Depth scale: -1 through -25

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

Signature	Firm
[signature]	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-5
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. _____ State Well Id No. _____ Well Name:	Final Static Water Level:	Surface Elevation: Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S ☒ 1/4 of S ☒ 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 53.36" N Long 91° 30' 41.63" W	Local Grid Location (If applicable) _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire	County Code: 18 Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
1 PS	22/48		-1	Asphalt										
			-2	L. brown sand, trace gloss	SP			0/2						Sample 2-4
			-3	M. brown sand	SP			0/2						
			-4											
2 PS	9/48		-5											
			-6					0/2						
			-7											
			-8											
3 PS	22/48		-9					0/2						
			-10	M brown sand w/ gravel	SP			0/2						Sample 10-12
			-11											
			-12											
			-13	End of Boring										
			-14											
			-15											
			-16											
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

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

Signature	Firm
Nathan Clark	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GT-6
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 55.510" Long 91° 30' 41.670"	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
				asphalt										
1	25/48		-1	D. brown sand w/gravel	SP			0/2						
ps			-2	M. brown sand	SP									Sample 2-4
			-3	L. brown sand w/gravel	SP			0/2						
			-4	M. brown sand	SP									
2	25/48		-5	M brown silty sand; fine	SM			0/2						
ps			-6											
			-7	M brown sand	SP			0/2						
			-8											
			-9					0/2						
3	36/48		-10											
ps			-11					0/2						Sample 10-12
			-12	M brown sand w/gravel	SP									
			-13	End of Boring										
			-14											
			-15											
			-16											
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

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

Signature	Firm
	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-7
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ___ N, ___ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 43.50" N Long 91° 30' 42.73" W	Local Grid Location (If applicable) ___ Feet ☐ N ☐ S ___ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-1	asphalt										
1 PS	36/48		-2	d. brown sand & gravel	SP			0/2						Sample 2-4
			-3					0/2						
			-4											
2 PS	6/48		-5											
			-6											
			-7	- rock jam; low recovery				0/2						
			-8											
3 PS	32/48		-9					0/2						
			-10	M. brown sand & gravel	SP									Sample 10-12
			-11					0/2						
			-12											
			-13	End of Boring										
			-14											
			-15											
			-16											
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

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

Signature	Firm
	AYRES ASSOCIATES

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GT-6
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E S ☐ 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 52.97"N Long 91° 32' 42.10"W	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
1 PS	30/48		-1	d. brown silt	ML			0/1						
			-2	d brown silty sand	SP-SM									
			-3	M brown sand	SP			0/1						
			-4											
2 PS	24/48		-5											
			-6	M brown silty sand; moist	SM			0/1						
			-7	M brown sand	SP									
			-8					0/1						
3 PS	14/48		-9											
			-10											
			-11	M brown sand w/ gravel	SP									
			-12					0/2						
4 PS	32/48		-13					0/1						
			-14											
			-15	M brown sand	SP			0/2						Sample 14-16
			-16											
5 PS	12/48		-17	M brown sand w/ gravel	SP									
			-18					0/1						
			-19											
			-20	— — — — —										
6 PS	0/48		-21											
			-22	no recovery										
			-23											
			-24	— — — — —										
7 PS	36/48		-25	M brown sand w/ gravel	SP			0/1						

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

Signature	Firm
	AYRES ASSOCIATES

GP-6 Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			27	M brown Sand w/ gravel	SP			0/1						
			28											
8 BS	36/48		29					0/1						
			30											
			31					0/1						
			32											
			33					0/1						
9 BS	36/48		34	- moist/wet										
			35					0/1						Sample 34-36
			36	- saturated		▽								
			37					0/1						
10 BS	20/40		38											
			39					0/2						
			40											
				End of Boring										

SOIL BORING LOG INFORMATION

Facility/Project Name: Former Adleman's Dry Cleaner	License/Permit/Monitoring Number:	Boring Number: GP-9
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Samples	Date Drilling Started: 11/16/18 M/D/Y	Date Drilling Completed: 11/16/18 M/D/Y Drilling Method: direct push (geoprobe)
State Unique Well No. / State Well Id No. / Well Name	Final Static Water Level / Surface Elevation	Borehole Dia.: 2 in
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E SE 1/4 of SE 1/4, of Section 18, T 27 N, R 9W	Lat. 44° 48' 53.10" N Long 91° 30' 41.66" W	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
Facility Id.: 618041490	County: Eau Claire County Code: 18	Civil Town/City/or Village: City of Eau Claire

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-0	asphalt										
1 PS	33/48		-1	d. brown sand w/ gravel	SP			0/2						
			-2											
			-3	M. brown sand	SP			0/2						Sample 2-4
			-4											
2 PS	36/48		-5	d. brown silty sand	SP-SM			0/2						
			-6	M. brown sand										
			-7		SP			0/2						
			-8											
3 PS	12/48		-9											
			-10					0/2						
			-11	M brown sand w/ gravel	SP			0/2						
			-12											
4 PS	31/48		-13											
			-14					0/2						
			-15											
			-16					0/2						
5 PS	24/48		-17											
			-18					0/2						
			-19											
			-20					0/2						
6 PS	26/48		-21											
			-22	M. brown sand	SP			0/2						
			-23											
			-24					0/2						
7 PS	40/48		-25					0/2						

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

Signature	Firm
	AYRES ASSOCIATES

CP-9 Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			27	M. brown sand w/gravel	SP			0/2						
			29					0/2						
8 PS	34/48		30					0/2						
			31											
			32											
9 PS	36/48		33					0/2						
			34											
			35					0/2						Sample 34-36
			36											
			37					0/2						
10 PS	24/48		38											
			39					0/2						
			40											
				End of Boring										

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

GP-1

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire	___ ___ ___ ___ ___	

Latitude / Longitude (see instructions): 44° 48' 53.41" N; 91° 30' 42.50" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
asphalt and patch	Surface	0.5	
chipped bentonite	0.5	12	0.5

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-2

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire		

Latitude / Longitude (see instructions)	Format Code	Method Code
44° 48' 53.22" N	☐ DD	☐ GPS008
91° 30' 42.50" W	☒ DDM	☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner

Facility ID (FID or PWS): 618041490

License/Permit/Monitoring #:

Original Well Owner: Mayo Clinic Health System

Present Well Owner: Mayo Clinic Health System

Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
asphalt cold patch	Surface	0.5		
chipped bentonite	0.5	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-3

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire	___ ___ ___ ___ ___	

Latitude / Longitude (see instructions)	Format Code	Method Code
44° 48' 53.16" N	☐ DD	☐ GPS008
91° 30' 42.10" W	☒ DDM	☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner

Facility ID (FID or PWS): 618041490

License/Permit/Monitoring #:

Original Well Owner: Mayo Clinic Health System

Present Well Owner: Mayo Clinic Health System

Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

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

asphalt cold patch
chipped bentonite

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-4

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire	___ ___ ___ ___	

Latitude / Longitude (see instructions): 44° 48' 53.05" N, 91° 30' 42.26" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

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

asphalt cold patch
bentonite

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-S

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire	___ ___ ___ ___	

Latitude / Longitude (see instructions)	Format Code	Method Code
44° 48' 53.36" N	☐ DD	☐ GPS008
91° 30' 41.63" W	☒ DDM	☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	___ ___ ___ ___ ___

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner

Facility ID (FID or PWS): 618041490

License/Permit/Monitoring #:

Original Well Owner: Mayo Clinic Health System

Present Well Owner: Mayo Clinic Health System

Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt cold patch	Surface	0.5		
Chipped bentonite	0.5	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-6

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire	___ ___ ___ ___ ___	

Latitude / Longitude (see instructions): 44° 48' 53.51" N, 91° 30' 41.67" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☒ W ☐ E

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
asphalt cold patch	Surface	0.5		
chipped bentonite	0.5	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-7

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire		

Latitude / Longitude (see instructions): 44° 48' 43.50" N, 91° 30' 42.23" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

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

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
asphalt cold patch	Surface	0.5		
chipped bentonite	0.5	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-8

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire		

Latitude / Longitude (see instructions): 44° 48' 52.57" N, 91° 30' 42.10" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	36

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
chipped bentonite	Surface	40	1	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

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

GP-9

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Eau Claire		

Latitude / Longitude (see instructions): 44° 48' 53.10" N; 91° 30' 41.66" W
Format Code: ☐ DD ☒ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SE	18	27 N	9 ☐ E ☒ W

or Gov't Lot #

Well Street Address: 1502 Bellinger Street

Well City, Village or Town	Well ZIP Code
Eau Claire	54703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
investigative boring	

2. Facility / Owner Information

Facility Name: Former Adleman's Dry Cleaner
Facility ID (FID or PWS): 618041490
License/Permit/Monitoring #:
Original Well Owner: Mayo Clinic Health System
Present Well Owner: Mayo Clinic Health System
Mailing Address of Present Owner: 1221 Whipple St

City of Present Owner	State	ZIP Code
Eau Claire	WI	54703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/16/2018
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): direct push (geoprobe)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	36

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	0.5		
0.5	40	1	

asphalt cold patch
chipped bentonite

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Ayres Associates		11/16/2018

Street or Route	Telephone Number
3433 Oakwood Hills Pkwy	(715) 834-3161

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Eau Claire	WI	54701		12/20/2018

DNR Use Only

Date Received	Noted By

Comments:

Appendix C

Laboratory Analytical Results

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 27, 2018

Ms. Lori Rosemore
Ayres Associates
3433 Oakwood Hills Parkway
PO Box 1590
Eau Claire, WI 547011590

RE: Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Dear Ms. Rosemore:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

cc: Mitchell Banach, Ayres Associates

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10456214001	**VS-1**	Air	11/16/18 15:49	11/20/18 14:30
10456214002	**VS-2**	Air	11/16/18 15:56	11/20/18 14:30
10456214003	**VS-3**	Air	11/16/18 16:04	11/20/18 14:30

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10456214001	**VS-1**	TO-15	AFV	6	PASI-M
10456214002	**VS-2**	TO-15	AFV	6	PASI-M
10456214003	**VS-3**	TO-15	AFV	6	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Sample: VS-1 **Lab ID: 10456214001** Collected: 11/16/18 15:49 Received: 11/20/18 14:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	ND	ug/m3	1.4	0.48	1.75		11/21/18 20:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.38	1.75		11/21/18 20:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.50	1.75		11/21/18 20:14	156-60-5	
Tetrachloroethene	**3.4**	ug/m3	1.2	0.55	1.75		11/21/18 20:14	127-18-4	
Trichloroethene	ND	ug/m3	0.96	0.45	1.75		11/21/18 20:14	79-01-6	
Vinyl chloride	ND	ug/m3	0.46	0.22	1.75		11/21/18 20:14	75-01-4	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Sample: VS-2 **Lab ID: 10456214002** Collected: 11/16/18 15:56 Received: 11/20/18 14:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	ND	ug/m3	1.4	0.49	1.79		11/21/18 20:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.39	1.79		11/21/18 20:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.51	1.79		11/21/18 20:40	156-60-5	
Tetrachloroethene	**8.4**	ug/m3	1.2	0.56	1.79		11/21/18 20:40	127-18-4	
Trichloroethene	ND	ug/m3	0.98	0.46	1.79		11/21/18 20:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.47	0.23	1.79		11/21/18 20:40	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Sample: VS-3 **Lab ID: 10456214003** Collected: 11/16/18 16:04 Received: 11/20/18 14:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	ND	ug/m3	1.4	0.48	1.75		11/21/18 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.38	1.75		11/21/18 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.50	1.75		11/21/18 21:07	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	0.55	1.75		11/21/18 21:07	127-18-4	
Trichloroethene	ND	ug/m3	0.96	0.45	1.75		11/21/18 21:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.46	0.22	1.75		11/21/18 21:07	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

QC Batch: 576913 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10456214001, 10456214002, 10456214003

METHOD BLANK: 3130726 Matrix: Air
Associated Lab Samples: 10456214001, 10456214002, 10456214003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	ND	0.81	11/21/18 14:13	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/21/18 14:13	
Tetrachloroethene	ug/m3	ND	0.69	11/21/18 14:13	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/21/18 14:13	
Trichloroethene	ug/m3	ND	0.55	11/21/18 14:13	
Vinyl chloride	ug/m3	ND	0.26	11/21/18 14:13	

LABORATORY CONTROL SAMPLE: 3130727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/m3	43.5	38.9	89	70-137	
cis-1,2-Dichloroethene	ug/m3	41.9	39.0	93	70-136	
Tetrachloroethene	ug/m3	70.3	67.4	96	70-133	
trans-1,2-Dichloroethene	ug/m3	41.5	40.0	96	70-132	
Trichloroethene	ug/m3	56.3	53.5	95	70-135	
Vinyl chloride	ug/m3	28.1	25.5	91	70-141	

SAMPLE DUPLICATE: 3131614

Parameter	Units	10456200003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	707	703	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 51-0317.00 Adleman's
Pace Project No.: 10456214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10456214001	**VS-1**	TO-15	576913		
10456214002	**VS-2**	TO-15	576913		
10456214003	**VS-3**	TO-15	576913		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-

The Chain-of-Custody is a LE

WO# : 10456214

10456214

ment
Ther two pages are
Soil + Groundwater
Samples

34703

Page: 3 of 3

Section A
Required Client Information:

Company: Ayres Associates
Address: 3433 Oakwood Hills Pkwy
Eau Claire, WI 54701
Email To: banachm@ayresassociates.com
Phone: 7158317659 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: banachm@ayresassociates.com
Copy To: rosemarel@ayresassociates.com
aldrichg@ayresassociates.com
Purchase Order No.:
Project Name: Allemen's
Project Number: 51-0317.00

Section C
Invoice Information:

Attention: Mitch Banach
Company Name: Ayres Associates
Address: 3433 Oakwood Hills Pkwy, Eau Claire, WI 54701
Pace Quote Reference:
Pace Project Manager/Sales Rep. BG Michels/Ryan Mathieu
Pace Profile #: 39395

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	VS-1	6LC		11/16/15	15:19	11/16/15	15:49	30	9	3479	0619							X			001
2	VS-2	6LC		11/16/15	15:26	11/16/15	15:56	29	8.5	0566	0779							X			002
3	VS-3	6LC		11/16/15	15:34	11/16/15	16:04	28.5	9	0013	0695							X			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, VC

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	11/18/15	11:00		11-20-15	1430

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mitchell Banach

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 11/18/15

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Ayres Associates BM 11/20/18

Project #: WO# : 10456214

PM: BM2 Due Date: 11/29/18

CLIENT: AYRES ASSOC.

Courier: ☑Fed Ex ☐UPS ☐Speedee ☐Client ☐Commercial ☐Pace ☐Other:_____

Tracking Number: 4545 9907 3565

Custody Seal on Cooler/Box Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☑No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☑Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☑No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 11-20-18 AG

Type of ice Received ☐Blue ☐Wet ☑None

			Comments:
Chain of Custody Present?	☑Yes	☐No	1.
Chain of Custody Filled Out?	☑Yes	☐No	2.
Chain of Custody Relinquished?	☑Yes	☐No	3.
Sampler Name and/or Signature on COC?	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time?	☑Yes	☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No	6.
Rush Turn Around Time Requested?	☐Yes	☑No	7.
Sufficient Volume?	☑Yes	☐No	8.
Correct Containers Used?	☑Yes	☐No	9.
-Pace Containers Used?	☑Yes	☐No	
Containers Intact?	☑Yes	☐No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑Yes	☐No	12.

Samples Received: FFFT Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
VS-1			-7	+5					
-2			-7.5	"					
-3			-7	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: BM Date: 11/20/18

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

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 29, 2018

Ms. Lori Rosemore
Ayres Associates
3433 Oakwood Hills Parkway
PO Box 1590
Eau Claire, WI 547011590

RE: Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Dear Ms. Rosemore:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 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,

Bob Michels
bob.michels@pacelabs.com
(612)709-5046
Project Manager

Enclosures

cc: Mitchell Banach, Ayres Associates

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10456270001	**GP-1 (2-4)**	Solid	11/16/18 09:25	11/20/18 11:35
10456270002	**GP-1 (10-12)**	Solid	11/16/18 09:25	11/20/18 11:35
10456270003	**GP-2 (2-4)**	Solid	11/16/18 10:05	11/20/18 11:35
10456270004	**GP-2 (10-12)**	Solid	11/16/18 10:00	11/20/18 11:35
10456270005	**GP-3 (8-10)**	Solid	11/16/18 10:20	11/20/18 11:35
10456270006	**GP-3 (10-12)**	Solid	11/16/18 10:25	11/20/18 11:35
10456270007	**GP-4 (2-4)**	Solid	11/16/18 10:45	11/20/18 11:35
10456270008	**GP-4 (10-12)**	Solid	11/16/18 10:50	11/20/18 11:35
10456270009	**GP-5 (2-4)**	Solid	11/16/18 11:00	11/20/18 11:35
10456270010	**GP-5 (10-12)**	Solid	11/16/18 11:05	11/20/18 11:35
10456270011	**GP-6 (2-4)**	Solid	11/16/18 11:30	11/20/18 11:35
10456270012	**GP-6 (10-12)**	Solid	11/16/18 11:35	11/20/18 11:35
10456270013	**GP-7 (2-4)**	Solid	11/16/18 11:50	11/20/18 11:35
10456270014	**GP-7 (10-12)**	Solid	11/16/18 11:55	11/20/18 11:35
10456270015	**GP-8 (14-16)**	Solid	11/16/18 12:35	11/20/18 11:35
10456270016	**GP-8 (34-36)**	Solid	11/16/18 12:40	11/20/18 11:35
10456270017	**GP-9 (2-4)**	Solid	11/16/18 14:00	11/20/18 11:35
10456270018	**GP-9 (34-36)**	Solid	11/16/18 14:05	11/20/18 11:35
10456270019	**GP-8**	Water	11/16/18 13:15	11/20/18 11:35
10456270020	**GP-9**	Water	11/16/18 14:10	11/20/18 11:35
10456270021	**Trip Blank**	Water	11/16/18 00:00	11/20/18 11:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10456270001	**GP-1 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270002	**GP-1 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270003	**GP-2 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270004	**GP-2 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270005	**GP-3 (8-10)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270006	**GP-3 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270007	**GP-4 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270008	**GP-4 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270009	**GP-5 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270010	**GP-5 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270011	**GP-6 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270012	**GP-6 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270013	**GP-7 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270014	**GP-7 (10-12)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270015	**GP-8 (14-16)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270016	**GP-8 (34-36)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270017	**GP-9 (2-4)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270018	**GP-9 (34-36)**	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	GDM	70	PASI-M
10456270019	**GP-8**	EPA 8260B	DS2	70	PASI-M

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10456270020	**GP-9**	EPA 8260B	DS2	70	PASI-M
10456270021	**Trip Blank**	EPA 8260B	DS2	70	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-1 (2-4) **Lab ID: 10456270001** Collected: 11/16/18 09:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**6.7**	%	0.10	0.10	1		11/28/18 14:31		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1080	336	1	11/27/18 11:39	11/27/18 18:21	67-64-1	
Allyl chloride	ND	ug/kg	216	45.2	1	11/27/18 11:39	11/27/18 18:21	107-05-1	
Benzene	ND	ug/kg	21.6	3.0	1	11/27/18 11:39	11/27/18 18:21	71-43-2	
Bromobenzene	ND	ug/kg	54.0	3.3	1	11/27/18 11:39	11/27/18 18:21	108-86-1	
Bromochloromethane	ND	ug/kg	54.0	18.7	1	11/27/18 11:39	11/27/18 18:21	74-97-5	
Bromodichloromethane	ND	ug/kg	54.0	18.5	1	11/27/18 11:39	11/27/18 18:21	75-27-4	
Bromoform	ND	ug/kg	216	81.7	1	11/27/18 11:39	11/27/18 18:21	75-25-2	
Bromomethane	ND	ug/kg	540	63.1	1	11/27/18 11:39	11/27/18 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	270	28.7	1	11/27/18 11:39	11/27/18 18:21	78-93-3	
n-Butylbenzene	ND	ug/kg	54.0	25.7	1	11/27/18 11:39	11/27/18 18:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.0	10.3	1	11/27/18 11:39	11/27/18 18:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.0	10.4	1	11/27/18 11:39	11/27/18 18:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.0	25.8	1	11/27/18 11:39	11/27/18 18:21	56-23-5	
Chlorobenzene	ND	ug/kg	54.0	3.0	1	11/27/18 11:39	11/27/18 18:21	108-90-7	
Chloroethane	ND	ug/kg	540	28.1	1	11/27/18 11:39	11/27/18 18:21	75-00-3	
Chloroform	ND	ug/kg	54.0	27.0	1	11/27/18 11:39	11/27/18 18:21	67-66-3	
Chloromethane	ND	ug/kg	216	12.9	1	11/27/18 11:39	11/27/18 18:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.0	2.7	1	11/27/18 11:39	11/27/18 18:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.0	2.8	1	11/27/18 11:39	11/27/18 18:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	540	188	1	11/27/18 11:39	11/27/18 18:21	96-12-8	
Dibromochloromethane	ND	ug/kg	216	6.3	1	11/27/18 11:39	11/27/18 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.0	5.7	1	11/27/18 11:39	11/27/18 18:21	106-93-4	
Dibromomethane	ND	ug/kg	54.0	9.9	1	11/27/18 11:39	11/27/18 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.0	2.2	1	11/27/18 11:39	11/27/18 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.0	2.0	1	11/27/18 11:39	11/27/18 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.0	3.3	1	11/27/18 11:39	11/27/18 18:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	216	17.5	1	11/27/18 11:39	11/27/18 18:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.0	6.1	1	11/27/18 11:39	11/27/18 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.0	5.9	1	11/27/18 11:39	11/27/18 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	216	16.2	1	11/27/18 11:39	11/27/18 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.0	8.9	1	11/27/18 11:39	11/27/18 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.0	25.3	1	11/27/18 11:39	11/27/18 18:21	156-60-5	
Dichlorofluoromethane	ND	ug/kg	540	74.6	1	11/27/18 11:39	11/27/18 18:21	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.0	9.3	1	11/27/18 11:39	11/27/18 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.0	7.5	1	11/27/18 11:39	11/27/18 18:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	216	6.7	1	11/27/18 11:39	11/27/18 18:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	216	24.9	1	11/27/18 11:39	11/27/18 18:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.0	7.7	1	11/27/18 11:39	11/27/18 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.0	7.5	1	11/27/18 11:39	11/27/18 18:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	216	33.0	1	11/27/18 11:39	11/27/18 18:21	60-29-7	
Ethylbenzene	ND	ug/kg	54.0	2.9	1	11/27/18 11:39	11/27/18 18:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	270	13.2	1	11/27/18 11:39	11/27/18 18:21	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-1 (2-4) **Lab ID: 10456270001** Collected: 11/16/18 09:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.0	2.4	1	11/27/18 11:39	11/27/18 18:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	216	16.4	1	11/27/18 11:39	11/27/18 18:21	99-87-6	
Methylene Chloride	ND	ug/kg	216	102	1	11/27/18 11:39	11/27/18 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	270	11.2	1	11/27/18 11:39	11/27/18 18:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.0	6.4	1	11/27/18 11:39	11/27/18 18:21	1634-04-4	
Naphthalene	ND	ug/kg	216	50.5	1	11/27/18 11:39	11/27/18 18:21	91-20-3	
n-Propylbenzene	ND	ug/kg	54.0	2.9	1	11/27/18 11:39	11/27/18 18:21	103-65-1	
Styrene	ND	ug/kg	54.0	2.5	1	11/27/18 11:39	11/27/18 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.0	16.9	1	11/27/18 11:39	11/27/18 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.0	9.5	1	11/27/18 11:39	11/27/18 18:21	79-34-5	
Tetrachloroethene	**57.3**	ug/kg	54.0	19.0	1	11/27/18 11:39	11/27/18 18:21	127-18-4	
Tetrahydrofuran	ND	ug/kg	2160	78.4	1	11/27/18 11:39	11/27/18 18:21	109-99-9	
Toluene	ND	ug/kg	54.0	13.2	1	11/27/18 11:39	11/27/18 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.0	8.6	1	11/27/18 11:39	11/27/18 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.0	12.0	1	11/27/18 11:39	11/27/18 18:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	216	25.1	1	11/27/18 11:39	11/27/18 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.0	6.5	1	11/27/18 11:39	11/27/18 18:21	79-00-5	
Trichloroethene	ND	ug/kg	54.0	8.3	1	11/27/18 11:39	11/27/18 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	216	94.1	1	11/27/18 11:39	11/27/18 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	216	14.1	1	11/27/18 11:39	11/27/18 18:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	216	62.6	1	11/27/18 11:39	11/27/18 18:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.0	10.8	1	11/27/18 11:39	11/27/18 18:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.0	8.6	1	11/27/18 11:39	11/27/18 18:21	108-67-8	
Vinyl chloride	ND	ug/kg	54.0	10.6	1	11/27/18 11:39	11/27/18 18:21	75-01-4	
Xylene (Total)	ND	ug/kg	162	12.5	1	11/27/18 11:39	11/27/18 18:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%.	75-125		1	11/27/18 11:39	11/27/18 18:21	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 18:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 18:21	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-1 (10-12) **Lab ID: 10456270002** Collected: 11/16/18 09:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**8.1**	%	0.10	0.10	1		11/28/18 14:31		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1080	336	1	11/27/18 11:39	11/27/18 18:39	67-64-1	
Allyl chloride	ND	ug/kg	216	45.3	1	11/27/18 11:39	11/27/18 18:39	107-05-1	
Benzene	ND	ug/kg	21.6	3.0	1	11/27/18 11:39	11/27/18 18:39	71-43-2	
Bromobenzene	ND	ug/kg	54.0	3.3	1	11/27/18 11:39	11/27/18 18:39	108-86-1	
Bromochloromethane	ND	ug/kg	54.0	18.7	1	11/27/18 11:39	11/27/18 18:39	74-97-5	
Bromodichloromethane	ND	ug/kg	54.0	18.5	1	11/27/18 11:39	11/27/18 18:39	75-27-4	
Bromoform	ND	ug/kg	216	81.8	1	11/27/18 11:39	11/27/18 18:39	75-25-2	
Bromomethane	ND	ug/kg	540	63.2	1	11/27/18 11:39	11/27/18 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	270	28.7	1	11/27/18 11:39	11/27/18 18:39	78-93-3	
n-Butylbenzene	ND	ug/kg	54.0	25.7	1	11/27/18 11:39	11/27/18 18:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.0	10.4	1	11/27/18 11:39	11/27/18 18:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.0	10.4	1	11/27/18 11:39	11/27/18 18:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.0	25.8	1	11/27/18 11:39	11/27/18 18:39	56-23-5	
Chlorobenzene	ND	ug/kg	54.0	3.0	1	11/27/18 11:39	11/27/18 18:39	108-90-7	
Chloroethane	ND	ug/kg	540	28.1	1	11/27/18 11:39	11/27/18 18:39	75-00-3	
Chloroform	ND	ug/kg	54.0	27.0	1	11/27/18 11:39	11/27/18 18:39	67-66-3	
Chloromethane	ND	ug/kg	216	13.0	1	11/27/18 11:39	11/27/18 18:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.0	2.7	1	11/27/18 11:39	11/27/18 18:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.0	2.8	1	11/27/18 11:39	11/27/18 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	540	188	1	11/27/18 11:39	11/27/18 18:39	96-12-8	
Dibromochloromethane	ND	ug/kg	216	6.3	1	11/27/18 11:39	11/27/18 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.0	5.7	1	11/27/18 11:39	11/27/18 18:39	106-93-4	
Dibromomethane	ND	ug/kg	54.0	9.9	1	11/27/18 11:39	11/27/18 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.0	2.2	1	11/27/18 11:39	11/27/18 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.0	2.0	1	11/27/18 11:39	11/27/18 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.0	3.4	1	11/27/18 11:39	11/27/18 18:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	216	17.5	1	11/27/18 11:39	11/27/18 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.0	6.1	1	11/27/18 11:39	11/27/18 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.0	5.9	1	11/27/18 11:39	11/27/18 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	216	16.2	1	11/27/18 11:39	11/27/18 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.0	9.0	1	11/27/18 11:39	11/27/18 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.0	25.3	1	11/27/18 11:39	11/27/18 18:39	156-60-5	
Dichlorofluoromethane	ND	ug/kg	540	74.7	1	11/27/18 11:39	11/27/18 18:39	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.0	9.3	1	11/27/18 11:39	11/27/18 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.0	7.5	1	11/27/18 11:39	11/27/18 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	216	6.7	1	11/27/18 11:39	11/27/18 18:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	216	25.0	1	11/27/18 11:39	11/27/18 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.0	7.7	1	11/27/18 11:39	11/27/18 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.0	7.5	1	11/27/18 11:39	11/27/18 18:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	216	33.1	1	11/27/18 11:39	11/27/18 18:39	60-29-7	
Ethylbenzene	ND	ug/kg	54.0	2.9	1	11/27/18 11:39	11/27/18 18:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	270	13.2	1	11/27/18 11:39	11/27/18 18:39	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-1 (10-12) **Lab ID: 10456270002** Collected: 11/16/18 09:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.0	2.4	1	11/27/18 11:39	11/27/18 18:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	216	16.4	1	11/27/18 11:39	11/27/18 18:39	99-87-6	
Methylene Chloride	ND	ug/kg	216	102	1	11/27/18 11:39	11/27/18 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	270	11.2	1	11/27/18 11:39	11/27/18 18:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.0	6.4	1	11/27/18 11:39	11/27/18 18:39	1634-04-4	
Naphthalene	ND	ug/kg	216	50.6	1	11/27/18 11:39	11/27/18 18:39	91-20-3	
n-Propylbenzene	ND	ug/kg	54.0	2.9	1	11/27/18 11:39	11/27/18 18:39	103-65-1	
Styrene	ND	ug/kg	54.0	2.5	1	11/27/18 11:39	11/27/18 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.0	17.0	1	11/27/18 11:39	11/27/18 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.0	9.5	1	11/27/18 11:39	11/27/18 18:39	79-34-5	
Tetrachloroethene	ND	ug/kg	54.0	19.0	1	11/27/18 11:39	11/27/18 18:39	127-18-4	
Tetrahydrofuran	ND	ug/kg	2160	78.6	1	11/27/18 11:39	11/27/18 18:39	109-99-9	
Toluene	ND	ug/kg	54.0	13.2	1	11/27/18 11:39	11/27/18 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.0	8.6	1	11/27/18 11:39	11/27/18 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.0	12.0	1	11/27/18 11:39	11/27/18 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	216	25.2	1	11/27/18 11:39	11/27/18 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.0	6.5	1	11/27/18 11:39	11/27/18 18:39	79-00-5	
Trichloroethene	ND	ug/kg	54.0	8.3	1	11/27/18 11:39	11/27/18 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	216	94.2	1	11/27/18 11:39	11/27/18 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	216	14.2	1	11/27/18 11:39	11/27/18 18:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	216	62.7	1	11/27/18 11:39	11/27/18 18:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.0	10.8	1	11/27/18 11:39	11/27/18 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.0	8.6	1	11/27/18 11:39	11/27/18 18:39	108-67-8	
Vinyl chloride	ND	ug/kg	54.0	10.6	1	11/27/18 11:39	11/27/18 18:39	75-01-4	
Xylene (Total)	ND	ug/kg	162	12.5	1	11/27/18 11:39	11/27/18 18:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-125		1	11/27/18 11:39	11/27/18 18:39	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 18:39	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 18:39	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-2 (2-4) **Lab ID: 10456270003** Collected: 11/16/18 10:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**4.7**	%	0.10	0.10	1		11/28/18 14:31		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1090	340	1	11/27/18 11:39	11/27/18 18:56	67-64-1	
Allyl chloride	ND	ug/kg	219	45.8	1	11/27/18 11:39	11/27/18 18:56	107-05-1	
Benzene	ND	ug/kg	21.9	3.1	1	11/27/18 11:39	11/27/18 18:56	71-43-2	
Bromobenzene	ND	ug/kg	54.7	3.4	1	11/27/18 11:39	11/27/18 18:56	108-86-1	
Bromochloromethane	ND	ug/kg	54.7	18.9	1	11/27/18 11:39	11/27/18 18:56	74-97-5	
Bromodichloromethane	ND	ug/kg	54.7	18.7	1	11/27/18 11:39	11/27/18 18:56	75-27-4	
Bromoform	ND	ug/kg	219	82.8	1	11/27/18 11:39	11/27/18 18:56	75-25-2	
Bromomethane	ND	ug/kg	547	64.0	1	11/27/18 11:39	11/27/18 18:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	273	29.1	1	11/27/18 11:39	11/27/18 18:56	78-93-3	
n-Butylbenzene	ND	ug/kg	54.7	26.0	1	11/27/18 11:39	11/27/18 18:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.7	10.5	1	11/27/18 11:39	11/27/18 18:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.7	10.5	1	11/27/18 11:39	11/27/18 18:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.7	26.1	1	11/27/18 11:39	11/27/18 18:56	56-23-5	
Chlorobenzene	ND	ug/kg	54.7	3.1	1	11/27/18 11:39	11/27/18 18:56	108-90-7	
Chloroethane	ND	ug/kg	547	28.4	1	11/27/18 11:39	11/27/18 18:56	75-00-3	
Chloroform	ND	ug/kg	54.7	27.3	1	11/27/18 11:39	11/27/18 18:56	67-66-3	
Chloromethane	ND	ug/kg	219	13.1	1	11/27/18 11:39	11/27/18 18:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.7	2.7	1	11/27/18 11:39	11/27/18 18:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.7	2.8	1	11/27/18 11:39	11/27/18 18:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	547	190	1	11/27/18 11:39	11/27/18 18:56	96-12-8	
Dibromochloromethane	ND	ug/kg	219	6.3	1	11/27/18 11:39	11/27/18 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.7	5.8	1	11/27/18 11:39	11/27/18 18:56	106-93-4	
Dibromomethane	ND	ug/kg	54.7	10.0	1	11/27/18 11:39	11/27/18 18:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.7	2.2	1	11/27/18 11:39	11/27/18 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.7	2.0	1	11/27/18 11:39	11/27/18 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.7	3.4	1	11/27/18 11:39	11/27/18 18:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	219	17.7	1	11/27/18 11:39	11/27/18 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.7	6.1	1	11/27/18 11:39	11/27/18 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.7	6.0	1	11/27/18 11:39	11/27/18 18:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	219	16.4	1	11/27/18 11:39	11/27/18 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.7	9.1	1	11/27/18 11:39	11/27/18 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.7	25.6	1	11/27/18 11:39	11/27/18 18:56	156-60-5	
Dichlorofluoromethane	ND	ug/kg	547	75.6	1	11/27/18 11:39	11/27/18 18:56	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.7	9.4	1	11/27/18 11:39	11/27/18 18:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.7	7.6	1	11/27/18 11:39	11/27/18 18:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	219	6.8	1	11/27/18 11:39	11/27/18 18:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	219	25.3	1	11/27/18 11:39	11/27/18 18:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.7	7.8	1	11/27/18 11:39	11/27/18 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.7	7.6	1	11/27/18 11:39	11/27/18 18:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	219	33.5	1	11/27/18 11:39	11/27/18 18:56	60-29-7	
Ethylbenzene	ND	ug/kg	54.7	3.0	1	11/27/18 11:39	11/27/18 18:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	273	13.3	1	11/27/18 11:39	11/27/18 18:56	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-2 (2-4) **Lab ID: 10456270003** Collected: 11/16/18 10:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.7	2.4	1	11/27/18 11:39	11/27/18 18:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	219	16.6	1	11/27/18 11:39	11/27/18 18:56	99-87-6	
Methylene Chloride	ND	ug/kg	219	103	1	11/27/18 11:39	11/27/18 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	273	11.4	1	11/27/18 11:39	11/27/18 18:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.7	6.5	1	11/27/18 11:39	11/27/18 18:56	1634-04-4	
Naphthalene	ND	ug/kg	219	51.2	1	11/27/18 11:39	11/27/18 18:56	91-20-3	
n-Propylbenzene	ND	ug/kg	54.7	2.9	1	11/27/18 11:39	11/27/18 18:56	103-65-1	
Styrene	ND	ug/kg	54.7	2.5	1	11/27/18 11:39	11/27/18 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.7	17.2	1	11/27/18 11:39	11/27/18 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.7	9.6	1	11/27/18 11:39	11/27/18 18:56	79-34-5	
Tetrachloroethene	**164**	ug/kg	54.7	19.2	1	11/27/18 11:39	11/27/18 18:56	127-18-4	
Tetrahydrofuran	ND	ug/kg	2190	79.5	1	11/27/18 11:39	11/27/18 18:56	109-99-9	
Toluene	ND	ug/kg	54.7	13.3	1	11/27/18 11:39	11/27/18 18:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.7	8.7	1	11/27/18 11:39	11/27/18 18:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.7	12.1	1	11/27/18 11:39	11/27/18 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	219	25.5	1	11/27/18 11:39	11/27/18 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.7	6.5	1	11/27/18 11:39	11/27/18 18:56	79-00-5	
Trichloroethene	ND	ug/kg	54.7	8.4	1	11/27/18 11:39	11/27/18 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	219	95.4	1	11/27/18 11:39	11/27/18 18:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	219	14.3	1	11/27/18 11:39	11/27/18 18:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	219	63.4	1	11/27/18 11:39	11/27/18 18:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.7	10.9	1	11/27/18 11:39	11/27/18 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.7	8.7	1	11/27/18 11:39	11/27/18 18:56	108-67-8	
Vinyl chloride	ND	ug/kg	54.7	10.8	1	11/27/18 11:39	11/27/18 18:56	75-01-4	
Xylene (Total)	ND	ug/kg	164	12.7	1	11/27/18 11:39	11/27/18 18:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%.	75-125		1	11/27/18 11:39	11/27/18 18:56	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 18:56	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 18:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-2 (10-12) **Lab ID: 10456270004** Collected: 11/16/18 10:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**9.0**	%	0.10	0.10	1		11/28/18 14:32		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1130	352	1	11/27/18 11:39	11/27/18 19:14	67-64-1	
Allyl chloride	ND	ug/kg	227	47.5	1	11/27/18 11:39	11/27/18 19:14	107-05-1	
Benzene	ND	ug/kg	22.7	3.2	1	11/27/18 11:39	11/27/18 19:14	71-43-2	
Bromobenzene	ND	ug/kg	56.7	3.5	1	11/27/18 11:39	11/27/18 19:14	108-86-1	
Bromochloromethane	ND	ug/kg	56.7	19.6	1	11/27/18 11:39	11/27/18 19:14	74-97-5	
Bromodichloromethane	ND	ug/kg	56.7	19.4	1	11/27/18 11:39	11/27/18 19:14	75-27-4	
Bromoform	ND	ug/kg	227	85.8	1	11/27/18 11:39	11/27/18 19:14	75-25-2	
Bromomethane	ND	ug/kg	567	66.3	1	11/27/18 11:39	11/27/18 19:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	283	30.1	1	11/27/18 11:39	11/27/18 19:14	78-93-3	
n-Butylbenzene	ND	ug/kg	56.7	27.0	1	11/27/18 11:39	11/27/18 19:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.7	10.9	1	11/27/18 11:39	11/27/18 19:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.7	10.9	1	11/27/18 11:39	11/27/18 19:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.7	27.1	1	11/27/18 11:39	11/27/18 19:14	56-23-5	
Chlorobenzene	ND	ug/kg	56.7	3.2	1	11/27/18 11:39	11/27/18 19:14	108-90-7	
Chloroethane	ND	ug/kg	567	29.5	1	11/27/18 11:39	11/27/18 19:14	75-00-3	
Chloroform	ND	ug/kg	56.7	28.3	1	11/27/18 11:39	11/27/18 19:14	67-66-3	
Chloromethane	ND	ug/kg	227	13.6	1	11/27/18 11:39	11/27/18 19:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.7	2.8	1	11/27/18 11:39	11/27/18 19:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.7	2.9	1	11/27/18 11:39	11/27/18 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	567	197	1	11/27/18 11:39	11/27/18 19:14	96-12-8	
Dibromochloromethane	ND	ug/kg	227	6.6	1	11/27/18 11:39	11/27/18 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.7	6.0	1	11/27/18 11:39	11/27/18 19:14	106-93-4	
Dibromomethane	ND	ug/kg	56.7	10.4	1	11/27/18 11:39	11/27/18 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.7	2.3	1	11/27/18 11:39	11/27/18 19:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.7	2.1	1	11/27/18 11:39	11/27/18 19:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.7	3.5	1	11/27/18 11:39	11/27/18 19:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	227	18.4	1	11/27/18 11:39	11/27/18 19:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.7	6.4	1	11/27/18 11:39	11/27/18 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.7	6.2	1	11/27/18 11:39	11/27/18 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	227	17.0	1	11/27/18 11:39	11/27/18 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.7	9.4	1	11/27/18 11:39	11/27/18 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.7	26.5	1	11/27/18 11:39	11/27/18 19:14	156-60-5	
Dichlorofluoromethane	ND	ug/kg	567	78.3	1	11/27/18 11:39	11/27/18 19:14	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	56.7	9.8	1	11/27/18 11:39	11/27/18 19:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.7	7.8	1	11/27/18 11:39	11/27/18 19:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	227	7.1	1	11/27/18 11:39	11/27/18 19:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	227	26.2	1	11/27/18 11:39	11/27/18 19:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.7	8.1	1	11/27/18 11:39	11/27/18 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.7	7.9	1	11/27/18 11:39	11/27/18 19:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	227	34.7	1	11/27/18 11:39	11/27/18 19:14	60-29-7	
Ethylbenzene	ND	ug/kg	56.7	3.1	1	11/27/18 11:39	11/27/18 19:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	283	13.8	1	11/27/18 11:39	11/27/18 19:14	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-2 (10-12) **Lab ID: 10456270004** Collected: 11/16/18 10:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.7	2.5	1	11/27/18 11:39	11/27/18 19:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	227	17.2	1	11/27/18 11:39	11/27/18 19:14	99-87-6	
Methylene Chloride	ND	ug/kg	227	107	1	11/27/18 11:39	11/27/18 19:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	283	11.8	1	11/27/18 11:39	11/27/18 19:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.7	6.7	1	11/27/18 11:39	11/27/18 19:14	1634-04-4	
Naphthalene	ND	ug/kg	227	53.0	1	11/27/18 11:39	11/27/18 19:14	91-20-3	
n-Propylbenzene	ND	ug/kg	56.7	3.0	1	11/27/18 11:39	11/27/18 19:14	103-65-1	
Styrene	ND	ug/kg	56.7	2.6	1	11/27/18 11:39	11/27/18 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.7	17.8	1	11/27/18 11:39	11/27/18 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.7	10	1	11/27/18 11:39	11/27/18 19:14	79-34-5	
Tetrachloroethene	ND	ug/kg	56.7	19.9	1	11/27/18 11:39	11/27/18 19:14	127-18-4	
Tetrahydrofuran	ND	ug/kg	2270	82.4	1	11/27/18 11:39	11/27/18 19:14	109-99-9	
Toluene	ND	ug/kg	56.7	13.8	1	11/27/18 11:39	11/27/18 19:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.7	9.1	1	11/27/18 11:39	11/27/18 19:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.7	12.6	1	11/27/18 11:39	11/27/18 19:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	227	26.4	1	11/27/18 11:39	11/27/18 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.7	6.8	1	11/27/18 11:39	11/27/18 19:14	79-00-5	
Trichloroethene	ND	ug/kg	56.7	8.7	1	11/27/18 11:39	11/27/18 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	227	98.8	1	11/27/18 11:39	11/27/18 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	227	14.8	1	11/27/18 11:39	11/27/18 19:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	227	65.7	1	11/27/18 11:39	11/27/18 19:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.7	11.3	1	11/27/18 11:39	11/27/18 19:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.7	9.0	1	11/27/18 11:39	11/27/18 19:14	108-67-8	
Vinyl chloride	ND	ug/kg	56.7	11.2	1	11/27/18 11:39	11/27/18 19:14	75-01-4	
Xylene (Total)	ND	ug/kg	170	13.1	1	11/27/18 11:39	11/27/18 19:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	75-125		1	11/27/18 11:39	11/27/18 19:14	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 19:14	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 19:14	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-3 (8-10) **Lab ID: 10456270005** Collected: 11/16/18 10:20 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**5.8**	%	0.10	0.10	1		11/28/18 14:32		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1080	337	1	11/27/18 11:39	11/27/18 19:31	67-64-1	
Allyl chloride	ND	ug/kg	216	45.3	1	11/27/18 11:39	11/27/18 19:31	107-05-1	
Benzene	ND	ug/kg	21.6	3.1	1	11/27/18 11:39	11/27/18 19:31	71-43-2	
Bromobenzene	ND	ug/kg	54.1	3.3	1	11/27/18 11:39	11/27/18 19:31	108-86-1	
Bromochloromethane	ND	ug/kg	54.1	18.7	1	11/27/18 11:39	11/27/18 19:31	74-97-5	
Bromodichloromethane	ND	ug/kg	54.1	18.5	1	11/27/18 11:39	11/27/18 19:31	75-27-4	
Bromoform	ND	ug/kg	216	81.9	1	11/27/18 11:39	11/27/18 19:31	75-25-2	
Bromomethane	ND	ug/kg	541	63.3	1	11/27/18 11:39	11/27/18 19:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	271	28.8	1	11/27/18 11:39	11/27/18 19:31	78-93-3	
n-Butylbenzene	ND	ug/kg	54.1	25.8	1	11/27/18 11:39	11/27/18 19:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.1	10.4	1	11/27/18 11:39	11/27/18 19:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.1	10.4	1	11/27/18 11:39	11/27/18 19:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.1	25.9	1	11/27/18 11:39	11/27/18 19:31	56-23-5	
Chlorobenzene	ND	ug/kg	54.1	3.1	1	11/27/18 11:39	11/27/18 19:31	108-90-7	
Chloroethane	ND	ug/kg	541	28.1	1	11/27/18 11:39	11/27/18 19:31	75-00-3	
Chloroform	ND	ug/kg	54.1	27.1	1	11/27/18 11:39	11/27/18 19:31	67-66-3	
Chloromethane	ND	ug/kg	216	13.0	1	11/27/18 11:39	11/27/18 19:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.1	2.7	1	11/27/18 11:39	11/27/18 19:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.1	2.8	1	11/27/18 11:39	11/27/18 19:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	541	188	1	11/27/18 11:39	11/27/18 19:31	96-12-8	
Dibromochloromethane	ND	ug/kg	216	6.3	1	11/27/18 11:39	11/27/18 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.1	5.7	1	11/27/18 11:39	11/27/18 19:31	106-93-4	
Dibromomethane	ND	ug/kg	54.1	9.9	1	11/27/18 11:39	11/27/18 19:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.1	2.2	1	11/27/18 11:39	11/27/18 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.1	2.0	1	11/27/18 11:39	11/27/18 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.1	3.4	1	11/27/18 11:39	11/27/18 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	216	17.5	1	11/27/18 11:39	11/27/18 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.1	6.1	1	11/27/18 11:39	11/27/18 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.1	6.0	1	11/27/18 11:39	11/27/18 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	216	16.2	1	11/27/18 11:39	11/27/18 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.1	9.0	1	11/27/18 11:39	11/27/18 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.1	25.3	1	11/27/18 11:39	11/27/18 19:31	156-60-5	
Dichlorofluoromethane	ND	ug/kg	541	74.8	1	11/27/18 11:39	11/27/18 19:31	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.1	9.3	1	11/27/18 11:39	11/27/18 19:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.1	7.5	1	11/27/18 11:39	11/27/18 19:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	216	6.8	1	11/27/18 11:39	11/27/18 19:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	216	25.0	1	11/27/18 11:39	11/27/18 19:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.1	7.7	1	11/27/18 11:39	11/27/18 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.1	7.5	1	11/27/18 11:39	11/27/18 19:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	216	33.1	1	11/27/18 11:39	11/27/18 19:31	60-29-7	
Ethylbenzene	ND	ug/kg	54.1	2.9	1	11/27/18 11:39	11/27/18 19:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	271	13.2	1	11/27/18 11:39	11/27/18 19:31	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-3 (8-10) **Lab ID: 10456270005** Collected: 11/16/18 10:20 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	54.1	2.4	1	11/27/18 11:39	11/27/18 19:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	216	16.4	1	11/27/18 11:39	11/27/18 19:31	99-87-6	
Methylene Chloride	ND	ug/kg	216	102	1	11/27/18 11:39	11/27/18 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	271	11.3	1	11/27/18 11:39	11/27/18 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.1	6.4	1	11/27/18 11:39	11/27/18 19:31	1634-04-4	
Naphthalene	ND	ug/kg	216	50.6	1	11/27/18 11:39	11/27/18 19:31	91-20-3	
n-Propylbenzene	ND	ug/kg	54.1	2.9	1	11/27/18 11:39	11/27/18 19:31	103-65-1	
Styrene	ND	ug/kg	54.1	2.5	1	11/27/18 11:39	11/27/18 19:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.1	17.0	1	11/27/18 11:39	11/27/18 19:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.1	9.5	1	11/27/18 11:39	11/27/18 19:31	79-34-5	
Tetrachloroethene	**75.1**	ug/kg	54.1	19.0	1	11/27/18 11:39	11/27/18 19:31	127-18-4	
Tetrahydrofuran	ND	ug/kg	2160	78.7	1	11/27/18 11:39	11/27/18 19:31	109-99-9	
Toluene	ND	ug/kg	54.1	13.2	1	11/27/18 11:39	11/27/18 19:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.1	8.6	1	11/27/18 11:39	11/27/18 19:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.1	12.0	1	11/27/18 11:39	11/27/18 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	216	25.2	1	11/27/18 11:39	11/27/18 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.1	6.5	1	11/27/18 11:39	11/27/18 19:31	79-00-5	
Trichloroethene	ND	ug/kg	54.1	8.3	1	11/27/18 11:39	11/27/18 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	216	94.4	1	11/27/18 11:39	11/27/18 19:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	216	14.2	1	11/27/18 11:39	11/27/18 19:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	216	62.8	1	11/27/18 11:39	11/27/18 19:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.1	10.8	1	11/27/18 11:39	11/27/18 19:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.1	8.6	1	11/27/18 11:39	11/27/18 19:31	108-67-8	
Vinyl chloride	ND	ug/kg	54.1	10.6	1	11/27/18 11:39	11/27/18 19:31	75-01-4	
Xylene (Total)	ND	ug/kg	162	12.6	1	11/27/18 11:39	11/27/18 19:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	75-125		1	11/27/18 11:39	11/27/18 19:31	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 19:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 19:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-3 (10-12) **Lab ID: 10456270006** Collected: 11/16/18 10:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**3.2**	%	0.10	0.10	1		11/28/18 14:32		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1030	320	1	11/27/18 11:39	11/27/18 19:49	67-64-1	
Allyl chloride	ND	ug/kg	206	43.1	1	11/27/18 11:39	11/27/18 19:49	107-05-1	
Benzene	ND	ug/kg	20.6	2.9	1	11/27/18 11:39	11/27/18 19:49	71-43-2	
Bromobenzene	ND	ug/kg	51.4	3.2	1	11/27/18 11:39	11/27/18 19:49	108-86-1	
Bromochloromethane	ND	ug/kg	51.4	17.8	1	11/27/18 11:39	11/27/18 19:49	74-97-5	
Bromodichloromethane	ND	ug/kg	51.4	17.6	1	11/27/18 11:39	11/27/18 19:49	75-27-4	
Bromoform	ND	ug/kg	206	77.8	1	11/27/18 11:39	11/27/18 19:49	75-25-2	
Bromomethane	ND	ug/kg	514	60.2	1	11/27/18 11:39	11/27/18 19:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	257	27.4	1	11/27/18 11:39	11/27/18 19:49	78-93-3	
n-Butylbenzene	ND	ug/kg	51.4	24.5	1	11/27/18 11:39	11/27/18 19:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.4	9.9	1	11/27/18 11:39	11/27/18 19:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.4	9.9	1	11/27/18 11:39	11/27/18 19:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.4	24.6	1	11/27/18 11:39	11/27/18 19:49	56-23-5	
Chlorobenzene	ND	ug/kg	51.4	2.9	1	11/27/18 11:39	11/27/18 19:49	108-90-7	
Chloroethane	ND	ug/kg	514	26.7	1	11/27/18 11:39	11/27/18 19:49	75-00-3	
Chloroform	ND	ug/kg	51.4	25.7	1	11/27/18 11:39	11/27/18 19:49	67-66-3	
Chloromethane	ND	ug/kg	206	12.3	1	11/27/18 11:39	11/27/18 19:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.4	2.5	1	11/27/18 11:39	11/27/18 19:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.4	2.6	1	11/27/18 11:39	11/27/18 19:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	514	179	1	11/27/18 11:39	11/27/18 19:49	96-12-8	
Dibromochloromethane	ND	ug/kg	206	6.0	1	11/27/18 11:39	11/27/18 19:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.4	5.4	1	11/27/18 11:39	11/27/18 19:49	106-93-4	
Dibromomethane	ND	ug/kg	51.4	9.4	1	11/27/18 11:39	11/27/18 19:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.4	2.1	1	11/27/18 11:39	11/27/18 19:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.4	1.9	1	11/27/18 11:39	11/27/18 19:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.4	3.2	1	11/27/18 11:39	11/27/18 19:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	206	16.7	1	11/27/18 11:39	11/27/18 19:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.4	5.8	1	11/27/18 11:39	11/27/18 19:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.4	5.7	1	11/27/18 11:39	11/27/18 19:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	206	15.4	1	11/27/18 11:39	11/27/18 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.4	8.5	1	11/27/18 11:39	11/27/18 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.4	24.1	1	11/27/18 11:39	11/27/18 19:49	156-60-5	
Dichlorofluoromethane	ND	ug/kg	514	71.1	1	11/27/18 11:39	11/27/18 19:49	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	51.4	8.9	1	11/27/18 11:39	11/27/18 19:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.4	7.1	1	11/27/18 11:39	11/27/18 19:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	206	6.4	1	11/27/18 11:39	11/27/18 19:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	206	23.8	1	11/27/18 11:39	11/27/18 19:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.4	7.4	1	11/27/18 11:39	11/27/18 19:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.4	7.1	1	11/27/18 11:39	11/27/18 19:49	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	206	31.5	1	11/27/18 11:39	11/27/18 19:49	60-29-7	
Ethylbenzene	ND	ug/kg	51.4	2.8	1	11/27/18 11:39	11/27/18 19:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	257	12.5	1	11/27/18 11:39	11/27/18 19:49	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-3 (10-12) **Lab ID: 10456270006** Collected: 11/16/18 10:25 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.4	2.3	1	11/27/18 11:39	11/27/18 19:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	206	15.6	1	11/27/18 11:39	11/27/18 19:49	99-87-6	
Methylene Chloride	ND	ug/kg	206	96.8	1	11/27/18 11:39	11/27/18 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	257	10.7	1	11/27/18 11:39	11/27/18 19:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.4	6.1	1	11/27/18 11:39	11/27/18 19:49	1634-04-4	
Naphthalene	ND	ug/kg	206	48.1	1	11/27/18 11:39	11/27/18 19:49	91-20-3	
n-Propylbenzene	ND	ug/kg	51.4	2.7	1	11/27/18 11:39	11/27/18 19:49	103-65-1	
Styrene	ND	ug/kg	51.4	2.3	1	11/27/18 11:39	11/27/18 19:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.4	16.1	1	11/27/18 11:39	11/27/18 19:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.4	9.1	1	11/27/18 11:39	11/27/18 19:49	79-34-5	
Tetrachloroethene	ND	ug/kg	51.4	18.1	1	11/27/18 11:39	11/27/18 19:49	127-18-4	
Tetrahydrofuran	ND	ug/kg	2060	74.8	1	11/27/18 11:39	11/27/18 19:49	109-99-9	
Toluene	ND	ug/kg	51.4	12.5	1	11/27/18 11:39	11/27/18 19:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.4	8.2	1	11/27/18 11:39	11/27/18 19:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.4	11.4	1	11/27/18 11:39	11/27/18 19:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	206	24.0	1	11/27/18 11:39	11/27/18 19:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.4	6.1	1	11/27/18 11:39	11/27/18 19:49	79-00-5	
Trichloroethene	ND	ug/kg	51.4	7.9	1	11/27/18 11:39	11/27/18 19:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	206	89.7	1	11/27/18 11:39	11/27/18 19:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	206	13.5	1	11/27/18 11:39	11/27/18 19:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	206	59.6	1	11/27/18 11:39	11/27/18 19:49	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.4	10.3	1	11/27/18 11:39	11/27/18 19:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.4	8.2	1	11/27/18 11:39	11/27/18 19:49	108-67-8	
Vinyl chloride	ND	ug/kg	51.4	10.1	1	11/27/18 11:39	11/27/18 19:49	75-01-4	
Xylene (Total)	ND	ug/kg	154	11.9	1	11/27/18 11:39	11/27/18 19:49	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-125		1	11/27/18 11:39	11/27/18 19:49	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 19:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 19:49	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-4 (2-4) **Lab ID: 10456270007** Collected: 11/16/18 10:45 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**4.8**	%	0.10	0.10	1		11/28/18 14:32		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1050	327	1	11/27/18 11:39	11/27/18 20:06	67-64-1	
Allyl chloride	ND	ug/kg	210	44.1	1	11/27/18 11:39	11/27/18 20:06	107-05-1	
Benzene	ND	ug/kg	21.0	3.0	1	11/27/18 11:39	11/27/18 20:06	71-43-2	
Bromobenzene	ND	ug/kg	52.6	3.2	1	11/27/18 11:39	11/27/18 20:06	108-86-1	
Bromochloromethane	ND	ug/kg	52.6	18.2	1	11/27/18 11:39	11/27/18 20:06	74-97-5	
Bromodichloromethane	ND	ug/kg	52.6	18.0	1	11/27/18 11:39	11/27/18 20:06	75-27-4	
Bromoform	ND	ug/kg	210	79.6	1	11/27/18 11:39	11/27/18 20:06	75-25-2	
Bromomethane	ND	ug/kg	526	61.5	1	11/27/18 11:39	11/27/18 20:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	263	28.0	1	11/27/18 11:39	11/27/18 20:06	78-93-3	
n-Butylbenzene	ND	ug/kg	52.6	25.0	1	11/27/18 11:39	11/27/18 20:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.6	10.1	1	11/27/18 11:39	11/27/18 20:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.6	10.1	1	11/27/18 11:39	11/27/18 20:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.6	25.1	1	11/27/18 11:39	11/27/18 20:06	56-23-5	
Chlorobenzene	ND	ug/kg	52.6	3.0	1	11/27/18 11:39	11/27/18 20:06	108-90-7	
Chloroethane	ND	ug/kg	526	27.3	1	11/27/18 11:39	11/27/18 20:06	75-00-3	
Chloroform	ND	ug/kg	52.6	26.3	1	11/27/18 11:39	11/27/18 20:06	67-66-3	
Chloromethane	ND	ug/kg	210	12.6	1	11/27/18 11:39	11/27/18 20:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.6	2.6	1	11/27/18 11:39	11/27/18 20:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.6	2.7	1	11/27/18 11:39	11/27/18 20:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	526	183	1	11/27/18 11:39	11/27/18 20:06	96-12-8	
Dibromochloromethane	ND	ug/kg	210	6.1	1	11/27/18 11:39	11/27/18 20:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.6	5.5	1	11/27/18 11:39	11/27/18 20:06	106-93-4	
Dibromomethane	ND	ug/kg	52.6	9.6	1	11/27/18 11:39	11/27/18 20:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.6	2.1	1	11/27/18 11:39	11/27/18 20:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.6	1.9	1	11/27/18 11:39	11/27/18 20:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.6	3.3	1	11/27/18 11:39	11/27/18 20:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	210	17.0	1	11/27/18 11:39	11/27/18 20:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.6	5.9	1	11/27/18 11:39	11/27/18 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.6	5.8	1	11/27/18 11:39	11/27/18 20:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	210	15.8	1	11/27/18 11:39	11/27/18 20:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.6	8.7	1	11/27/18 11:39	11/27/18 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.6	24.6	1	11/27/18 11:39	11/27/18 20:06	156-60-5	
Dichlorofluoromethane	ND	ug/kg	526	72.7	1	11/27/18 11:39	11/27/18 20:06	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	52.6	9.1	1	11/27/18 11:39	11/27/18 20:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.6	7.3	1	11/27/18 11:39	11/27/18 20:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	210	6.6	1	11/27/18 11:39	11/27/18 20:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	210	24.3	1	11/27/18 11:39	11/27/18 20:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.6	7.5	1	11/27/18 11:39	11/27/18 20:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.6	7.3	1	11/27/18 11:39	11/27/18 20:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	210	32.2	1	11/27/18 11:39	11/27/18 20:06	60-29-7	
Ethylbenzene	ND	ug/kg	52.6	2.9	1	11/27/18 11:39	11/27/18 20:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	263	12.8	1	11/27/18 11:39	11/27/18 20:06	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-4 (2-4) **Lab ID: 10456270007** Collected: 11/16/18 10:45 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.6	2.3	1	11/27/18 11:39	11/27/18 20:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	210	16.0	1	11/27/18 11:39	11/27/18 20:06	99-87-6	
Methylene Chloride	ND	ug/kg	210	98.9	1	11/27/18 11:39	11/27/18 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	263	10.9	1	11/27/18 11:39	11/27/18 20:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.6	6.3	1	11/27/18 11:39	11/27/18 20:06	1634-04-4	
Naphthalene	ND	ug/kg	210	49.2	1	11/27/18 11:39	11/27/18 20:06	91-20-3	
n-Propylbenzene	ND	ug/kg	52.6	2.8	1	11/27/18 11:39	11/27/18 20:06	103-65-1	
Styrene	ND	ug/kg	52.6	2.4	1	11/27/18 11:39	11/27/18 20:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.6	16.5	1	11/27/18 11:39	11/27/18 20:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.6	9.3	1	11/27/18 11:39	11/27/18 20:06	79-34-5	
Tetrachloroethene	ND	ug/kg	52.6	18.5	1	11/27/18 11:39	11/27/18 20:06	127-18-4	
Tetrahydrofuran	ND	ug/kg	2100	76.4	1	11/27/18 11:39	11/27/18 20:06	109-99-9	
Toluene	ND	ug/kg	52.6	12.8	1	11/27/18 11:39	11/27/18 20:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.6	8.4	1	11/27/18 11:39	11/27/18 20:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.6	11.7	1	11/27/18 11:39	11/27/18 20:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	210	24.5	1	11/27/18 11:39	11/27/18 20:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.6	6.3	1	11/27/18 11:39	11/27/18 20:06	79-00-5	
Trichloroethene	ND	ug/kg	52.6	8.1	1	11/27/18 11:39	11/27/18 20:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	210	91.7	1	11/27/18 11:39	11/27/18 20:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	210	13.8	1	11/27/18 11:39	11/27/18 20:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	210	61.0	1	11/27/18 11:39	11/27/18 20:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.6	10.5	1	11/27/18 11:39	11/27/18 20:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.6	8.4	1	11/27/18 11:39	11/27/18 20:06	108-67-8	
Vinyl chloride	ND	ug/kg	52.6	10.3	1	11/27/18 11:39	11/27/18 20:06	75-01-4	
Xylene (Total)	ND	ug/kg	158	12.2	1	11/27/18 11:39	11/27/18 20:06	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	113	%.	75-125		1	11/27/18 11:39	11/27/18 20:06	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 20:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 20:06	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-4 (10-12) **Lab ID: 10456270008** Collected: 11/16/18 10:50 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**4.3**	%	0.10	0.10	1		11/28/18 14:32		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1060	330	1	11/27/18 11:39	11/27/18 20:23	67-64-1	
Allyl chloride	ND	ug/kg	212	44.5	1	11/27/18 11:39	11/27/18 20:23	107-05-1	
Benzene	ND	ug/kg	21.2	3.0	1	11/27/18 11:39	11/27/18 20:23	71-43-2	
Bromobenzene	ND	ug/kg	53.1	3.3	1	11/27/18 11:39	11/27/18 20:23	108-86-1	
Bromochloromethane	ND	ug/kg	53.1	18.4	1	11/27/18 11:39	11/27/18 20:23	74-97-5	
Bromodichloromethane	ND	ug/kg	53.1	18.2	1	11/27/18 11:39	11/27/18 20:23	75-27-4	
Bromoform	ND	ug/kg	212	80.4	1	11/27/18 11:39	11/27/18 20:23	75-25-2	
Bromomethane	ND	ug/kg	531	62.1	1	11/27/18 11:39	11/27/18 20:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	266	28.3	1	11/27/18 11:39	11/27/18 20:23	78-93-3	
n-Butylbenzene	ND	ug/kg	53.1	25.3	1	11/27/18 11:39	11/27/18 20:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.1	10.2	1	11/27/18 11:39	11/27/18 20:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.1	10.2	1	11/27/18 11:39	11/27/18 20:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.1	25.4	1	11/27/18 11:39	11/27/18 20:23	56-23-5	
Chlorobenzene	ND	ug/kg	53.1	3.0	1	11/27/18 11:39	11/27/18 20:23	108-90-7	
Chloroethane	ND	ug/kg	531	27.6	1	11/27/18 11:39	11/27/18 20:23	75-00-3	
Chloroform	ND	ug/kg	53.1	26.6	1	11/27/18 11:39	11/27/18 20:23	67-66-3	
Chloromethane	ND	ug/kg	212	12.7	1	11/27/18 11:39	11/27/18 20:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.1	2.6	1	11/27/18 11:39	11/27/18 20:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.1	2.7	1	11/27/18 11:39	11/27/18 20:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	531	185	1	11/27/18 11:39	11/27/18 20:23	96-12-8	
Dibromochloromethane	ND	ug/kg	212	6.2	1	11/27/18 11:39	11/27/18 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.1	5.6	1	11/27/18 11:39	11/27/18 20:23	106-93-4	
Dibromomethane	ND	ug/kg	53.1	9.7	1	11/27/18 11:39	11/27/18 20:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.1	2.1	1	11/27/18 11:39	11/27/18 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.1	1.9	1	11/27/18 11:39	11/27/18 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.1	3.3	1	11/27/18 11:39	11/27/18 20:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	212	17.2	1	11/27/18 11:39	11/27/18 20:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.1	6.0	1	11/27/18 11:39	11/27/18 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.1	5.8	1	11/27/18 11:39	11/27/18 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	212	15.9	1	11/27/18 11:39	11/27/18 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.1	8.8	1	11/27/18 11:39	11/27/18 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.1	24.9	1	11/27/18 11:39	11/27/18 20:23	156-60-5	
Dichlorofluoromethane	ND	ug/kg	531	73.4	1	11/27/18 11:39	11/27/18 20:23	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	53.1	9.2	1	11/27/18 11:39	11/27/18 20:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.1	7.4	1	11/27/18 11:39	11/27/18 20:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	212	6.6	1	11/27/18 11:39	11/27/18 20:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	212	24.5	1	11/27/18 11:39	11/27/18 20:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.1	7.6	1	11/27/18 11:39	11/27/18 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.1	7.4	1	11/27/18 11:39	11/27/18 20:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	212	32.5	1	11/27/18 11:39	11/27/18 20:23	60-29-7	
Ethylbenzene	ND	ug/kg	53.1	2.9	1	11/27/18 11:39	11/27/18 20:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	266	13.0	1	11/27/18 11:39	11/27/18 20:23	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-4 (10-12) **Lab ID: 10456270008** Collected: 11/16/18 10:50 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	53.1	2.4	1	11/27/18 11:39	11/27/18 20:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	212	16.1	1	11/27/18 11:39	11/27/18 20:23	99-87-6	
Methylene Chloride	ND	ug/kg	212	99.9	1	11/27/18 11:39	11/27/18 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	266	11.0	1	11/27/18 11:39	11/27/18 20:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.1	6.3	1	11/27/18 11:39	11/27/18 20:23	1634-04-4	
Naphthalene	ND	ug/kg	212	49.7	1	11/27/18 11:39	11/27/18 20:23	91-20-3	
n-Propylbenzene	ND	ug/kg	53.1	2.8	1	11/27/18 11:39	11/27/18 20:23	103-65-1	
Styrene	ND	ug/kg	53.1	2.4	1	11/27/18 11:39	11/27/18 20:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.1	16.7	1	11/27/18 11:39	11/27/18 20:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.1	9.4	1	11/27/18 11:39	11/27/18 20:23	79-34-5	
Tetrachloroethene	ND	ug/kg	53.1	18.7	1	11/27/18 11:39	11/27/18 20:23	127-18-4	
Tetrahydrofuran	ND	ug/kg	2120	77.2	1	11/27/18 11:39	11/27/18 20:23	109-99-9	
Toluene	ND	ug/kg	53.1	13.0	1	11/27/18 11:39	11/27/18 20:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.1	8.5	1	11/27/18 11:39	11/27/18 20:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.1	11.8	1	11/27/18 11:39	11/27/18 20:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	212	24.7	1	11/27/18 11:39	11/27/18 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.1	6.4	1	11/27/18 11:39	11/27/18 20:23	79-00-5	
Trichloroethene	ND	ug/kg	53.1	8.2	1	11/27/18 11:39	11/27/18 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	212	92.6	1	11/27/18 11:39	11/27/18 20:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	212	13.9	1	11/27/18 11:39	11/27/18 20:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	212	61.6	1	11/27/18 11:39	11/27/18 20:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	53.1	10.6	1	11/27/18 11:39	11/27/18 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.1	8.5	1	11/27/18 11:39	11/27/18 20:23	108-67-8	
Vinyl chloride	ND	ug/kg	53.1	10.5	1	11/27/18 11:39	11/27/18 20:23	75-01-4	
Xylene (Total)	ND	ug/kg	159	12.3	1	11/27/18 11:39	11/27/18 20:23	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	75-125		1	11/27/18 11:39	11/27/18 20:23	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 20:23	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 20:23	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-5 (2-4) **Lab ID: 10456270009** Collected: 11/16/18 11:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**7.4**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1060	329	1	11/27/18 11:39	11/27/18 20:41	67-64-1	
Allyl chloride	ND	ug/kg	211	44.3	1	11/27/18 11:39	11/27/18 20:41	107-05-1	
Benzene	ND	ug/kg	21.1	3.0	1	11/27/18 11:39	11/27/18 20:41	71-43-2	
Bromobenzene	ND	ug/kg	52.8	3.2	1	11/27/18 11:39	11/27/18 20:41	108-86-1	
Bromochloromethane	ND	ug/kg	52.8	18.3	1	11/27/18 11:39	11/27/18 20:41	74-97-5	
Bromodichloromethane	ND	ug/kg	52.8	18.1	1	11/27/18 11:39	11/27/18 20:41	75-27-4	
Bromoform	ND	ug/kg	211	80.0	1	11/27/18 11:39	11/27/18 20:41	75-25-2	
Bromomethane	ND	ug/kg	528	61.8	1	11/27/18 11:39	11/27/18 20:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	264	28.1	1	11/27/18 11:39	11/27/18 20:41	78-93-3	
n-Butylbenzene	ND	ug/kg	52.8	25.1	1	11/27/18 11:39	11/27/18 20:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.8	10.1	1	11/27/18 11:39	11/27/18 20:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.8	10.1	1	11/27/18 11:39	11/27/18 20:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.8	25.2	1	11/27/18 11:39	11/27/18 20:41	56-23-5	
Chlorobenzene	ND	ug/kg	52.8	3.0	1	11/27/18 11:39	11/27/18 20:41	108-90-7	
Chloroethane	ND	ug/kg	528	27.5	1	11/27/18 11:39	11/27/18 20:41	75-00-3	
Chloroform	ND	ug/kg	52.8	26.4	1	11/27/18 11:39	11/27/18 20:41	67-66-3	
Chloromethane	ND	ug/kg	211	12.7	1	11/27/18 11:39	11/27/18 20:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.8	2.6	1	11/27/18 11:39	11/27/18 20:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.8	2.7	1	11/27/18 11:39	11/27/18 20:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	528	184	1	11/27/18 11:39	11/27/18 20:41	96-12-8	
Dibromochloromethane	ND	ug/kg	211	6.1	1	11/27/18 11:39	11/27/18 20:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.8	5.6	1	11/27/18 11:39	11/27/18 20:41	106-93-4	
Dibromomethane	ND	ug/kg	52.8	9.7	1	11/27/18 11:39	11/27/18 20:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.8	2.1	1	11/27/18 11:39	11/27/18 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.8	1.9	1	11/27/18 11:39	11/27/18 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.8	3.3	1	11/27/18 11:39	11/27/18 20:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	211	17.1	1	11/27/18 11:39	11/27/18 20:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.8	5.9	1	11/27/18 11:39	11/27/18 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.8	5.8	1	11/27/18 11:39	11/27/18 20:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	211	15.8	1	11/27/18 11:39	11/27/18 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.8	8.8	1	11/27/18 11:39	11/27/18 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.8	24.7	1	11/27/18 11:39	11/27/18 20:41	156-60-5	
Dichlorofluoromethane	ND	ug/kg	528	73.0	1	11/27/18 11:39	11/27/18 20:41	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	52.8	9.1	1	11/27/18 11:39	11/27/18 20:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.8	7.3	1	11/27/18 11:39	11/27/18 20:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	211	6.6	1	11/27/18 11:39	11/27/18 20:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	211	24.4	1	11/27/18 11:39	11/27/18 20:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.8	7.6	1	11/27/18 11:39	11/27/18 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.8	7.3	1	11/27/18 11:39	11/27/18 20:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	211	32.3	1	11/27/18 11:39	11/27/18 20:41	60-29-7	
Ethylbenzene	ND	ug/kg	52.8	2.9	1	11/27/18 11:39	11/27/18 20:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	264	12.9	1	11/27/18 11:39	11/27/18 20:41	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-5 (2-4) **Lab ID: 10456270009** Collected: 11/16/18 11:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.8	2.3	1	11/27/18 11:39	11/27/18 20:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	211	16.1	1	11/27/18 11:39	11/27/18 20:41	99-87-6	
Methylene Chloride	ND	ug/kg	211	99.4	1	11/27/18 11:39	11/27/18 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	264	11.0	1	11/27/18 11:39	11/27/18 20:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.8	6.3	1	11/27/18 11:39	11/27/18 20:41	1634-04-4	
Naphthalene	ND	ug/kg	211	49.4	1	11/27/18 11:39	11/27/18 20:41	91-20-3	
n-Propylbenzene	ND	ug/kg	52.8	2.8	1	11/27/18 11:39	11/27/18 20:41	103-65-1	
Styrene	ND	ug/kg	52.8	2.4	1	11/27/18 11:39	11/27/18 20:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.8	16.6	1	11/27/18 11:39	11/27/18 20:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.8	9.3	1	11/27/18 11:39	11/27/18 20:41	79-34-5	
Tetrachloroethene	**250**	ug/kg	52.8	18.6	1	11/27/18 11:39	11/27/18 20:41	127-18-4	
Tetrahydrofuran	ND	ug/kg	2110	76.8	1	11/27/18 11:39	11/27/18 20:41	109-99-9	
Toluene	ND	ug/kg	52.8	12.9	1	11/27/18 11:39	11/27/18 20:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.8	8.4	1	11/27/18 11:39	11/27/18 20:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.8	11.7	1	11/27/18 11:39	11/27/18 20:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	211	24.6	1	11/27/18 11:39	11/27/18 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.8	6.3	1	11/27/18 11:39	11/27/18 20:41	79-00-5	
Trichloroethene	ND	ug/kg	52.8	8.1	1	11/27/18 11:39	11/27/18 20:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	211	92.1	1	11/27/18 11:39	11/27/18 20:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	211	13.8	1	11/27/18 11:39	11/27/18 20:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	211	61.3	1	11/27/18 11:39	11/27/18 20:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.8	10.6	1	11/27/18 11:39	11/27/18 20:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.8	8.4	1	11/27/18 11:39	11/27/18 20:41	108-67-8	
Vinyl chloride	ND	ug/kg	52.8	10.4	1	11/27/18 11:39	11/27/18 20:41	75-01-4	
Xylene (Total)	ND	ug/kg	158	12.3	1	11/27/18 11:39	11/27/18 20:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%.	75-125		1	11/27/18 11:39	11/27/18 20:41	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 20:41	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 20:41	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-5 (10-12) **Lab ID: 10456270010** Collected: 11/16/18 11:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**3.3**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1060	328	1	11/27/18 11:39	11/27/18 20:58	67-64-1	
Allyl chloride	ND	ug/kg	211	44.2	1	11/27/18 11:39	11/27/18 20:58	107-05-1	
Benzene	ND	ug/kg	21.1	3.0	1	11/27/18 11:39	11/27/18 20:58	71-43-2	
Bromobenzene	ND	ug/kg	52.8	3.2	1	11/27/18 11:39	11/27/18 20:58	108-86-1	
Bromochloromethane	ND	ug/kg	52.8	18.3	1	11/27/18 11:39	11/27/18 20:58	74-97-5	
Bromodichloromethane	ND	ug/kg	52.8	18.1	1	11/27/18 11:39	11/27/18 20:58	75-27-4	
Bromoform	ND	ug/kg	211	79.9	1	11/27/18 11:39	11/27/18 20:58	75-25-2	
Bromomethane	ND	ug/kg	528	61.8	1	11/27/18 11:39	11/27/18 20:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	264	28.1	1	11/27/18 11:39	11/27/18 20:58	78-93-3	
n-Butylbenzene	ND	ug/kg	52.8	25.1	1	11/27/18 11:39	11/27/18 20:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.8	10.1	1	11/27/18 11:39	11/27/18 20:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.8	10.1	1	11/27/18 11:39	11/27/18 20:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.8	25.2	1	11/27/18 11:39	11/27/18 20:58	56-23-5	
Chlorobenzene	ND	ug/kg	52.8	3.0	1	11/27/18 11:39	11/27/18 20:58	108-90-7	
Chloroethane	ND	ug/kg	528	27.4	1	11/27/18 11:39	11/27/18 20:58	75-00-3	
Chloroform	ND	ug/kg	52.8	26.4	1	11/27/18 11:39	11/27/18 20:58	67-66-3	
Chloromethane	ND	ug/kg	211	12.7	1	11/27/18 11:39	11/27/18 20:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.8	2.6	1	11/27/18 11:39	11/27/18 20:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.8	2.7	1	11/27/18 11:39	11/27/18 20:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	528	184	1	11/27/18 11:39	11/27/18 20:58	96-12-8	
Dibromochloromethane	ND	ug/kg	211	6.1	1	11/27/18 11:39	11/27/18 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.8	5.6	1	11/27/18 11:39	11/27/18 20:58	106-93-4	
Dibromomethane	ND	ug/kg	52.8	9.7	1	11/27/18 11:39	11/27/18 20:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.8	2.1	1	11/27/18 11:39	11/27/18 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.8	1.9	1	11/27/18 11:39	11/27/18 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.8	3.3	1	11/27/18 11:39	11/27/18 20:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	211	17.1	1	11/27/18 11:39	11/27/18 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.8	5.9	1	11/27/18 11:39	11/27/18 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.8	5.8	1	11/27/18 11:39	11/27/18 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	211	15.8	1	11/27/18 11:39	11/27/18 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.8	8.8	1	11/27/18 11:39	11/27/18 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.8	24.7	1	11/27/18 11:39	11/27/18 20:58	156-60-5	
Dichlorofluoromethane	ND	ug/kg	528	72.9	1	11/27/18 11:39	11/27/18 20:58	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	52.8	9.1	1	11/27/18 11:39	11/27/18 20:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.8	7.3	1	11/27/18 11:39	11/27/18 20:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	211	6.6	1	11/27/18 11:39	11/27/18 20:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	211	24.4	1	11/27/18 11:39	11/27/18 20:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.8	7.6	1	11/27/18 11:39	11/27/18 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.8	7.3	1	11/27/18 11:39	11/27/18 20:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	211	32.3	1	11/27/18 11:39	11/27/18 20:58	60-29-7	
Ethylbenzene	ND	ug/kg	52.8	2.9	1	11/27/18 11:39	11/27/18 20:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	264	12.9	1	11/27/18 11:39	11/27/18 20:58	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-5 (10-12) **Lab ID: 10456270010** Collected: 11/16/18 11:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.8	2.3	1	11/27/18 11:39	11/27/18 20:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	211	16.0	1	11/27/18 11:39	11/27/18 20:58	99-87-6	
Methylene Chloride	ND	ug/kg	211	99.3	1	11/27/18 11:39	11/27/18 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	264	11.0	1	11/27/18 11:39	11/27/18 20:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.8	6.3	1	11/27/18 11:39	11/27/18 20:58	1634-04-4	
Naphthalene	ND	ug/kg	211	49.4	1	11/27/18 11:39	11/27/18 20:58	91-20-3	
n-Propylbenzene	ND	ug/kg	52.8	2.8	1	11/27/18 11:39	11/27/18 20:58	103-65-1	
Styrene	ND	ug/kg	52.8	2.4	1	11/27/18 11:39	11/27/18 20:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.8	16.6	1	11/27/18 11:39	11/27/18 20:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.8	9.3	1	11/27/18 11:39	11/27/18 20:58	79-34-5	
Tetrachloroethene	ND	ug/kg	52.8	18.6	1	11/27/18 11:39	11/27/18 20:58	127-18-4	
Tetrahydrofuran	ND	ug/kg	2110	76.7	1	11/27/18 11:39	11/27/18 20:58	109-99-9	
Toluene	ND	ug/kg	52.8	12.9	1	11/27/18 11:39	11/27/18 20:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.8	8.4	1	11/27/18 11:39	11/27/18 20:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.8	11.7	1	11/27/18 11:39	11/27/18 20:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	211	24.6	1	11/27/18 11:39	11/27/18 20:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.8	6.3	1	11/27/18 11:39	11/27/18 20:58	79-00-5	
Trichloroethene	ND	ug/kg	52.8	8.1	1	11/27/18 11:39	11/27/18 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	211	92.0	1	11/27/18 11:39	11/27/18 20:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	211	13.8	1	11/27/18 11:39	11/27/18 20:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	211	61.2	1	11/27/18 11:39	11/27/18 20:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.8	10.6	1	11/27/18 11:39	11/27/18 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.8	8.4	1	11/27/18 11:39	11/27/18 20:58	108-67-8	
Vinyl chloride	ND	ug/kg	52.8	10.4	1	11/27/18 11:39	11/27/18 20:58	75-01-4	
Xylene (Total)	ND	ug/kg	158	12.2	1	11/27/18 11:39	11/27/18 20:58	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	75-125		1	11/27/18 11:39	11/27/18 20:58	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 20:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 20:58	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-6 (2-4) **Lab ID: 10456270011** Collected: 11/16/18 11:30 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**6.4**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1030	321	1	11/27/18 11:39	11/27/18 21:15	67-64-1	
Allyl chloride	ND	ug/kg	207	43.3	1	11/27/18 11:39	11/27/18 21:15	107-05-1	
Benzene	ND	ug/kg	20.7	2.9	1	11/27/18 11:39	11/27/18 21:15	71-43-2	
Bromobenzene	ND	ug/kg	51.7	3.2	1	11/27/18 11:39	11/27/18 21:15	108-86-1	
Bromochloromethane	ND	ug/kg	51.7	17.9	1	11/27/18 11:39	11/27/18 21:15	74-97-5	
Bromodichloromethane	ND	ug/kg	51.7	17.7	1	11/27/18 11:39	11/27/18 21:15	75-27-4	
Bromoform	ND	ug/kg	207	78.2	1	11/27/18 11:39	11/27/18 21:15	75-25-2	
Bromomethane	ND	ug/kg	517	60.4	1	11/27/18 11:39	11/27/18 21:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	258	27.5	1	11/27/18 11:39	11/27/18 21:15	78-93-3	
n-Butylbenzene	ND	ug/kg	51.7	24.6	1	11/27/18 11:39	11/27/18 21:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.7	9.9	1	11/27/18 11:39	11/27/18 21:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.7	9.9	1	11/27/18 11:39	11/27/18 21:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.7	24.7	1	11/27/18 11:39	11/27/18 21:15	56-23-5	
Chlorobenzene	ND	ug/kg	51.7	2.9	1	11/27/18 11:39	11/27/18 21:15	108-90-7	
Chloroethane	ND	ug/kg	517	26.9	1	11/27/18 11:39	11/27/18 21:15	75-00-3	
Chloroform	ND	ug/kg	51.7	25.8	1	11/27/18 11:39	11/27/18 21:15	67-66-3	
Chloromethane	ND	ug/kg	207	12.4	1	11/27/18 11:39	11/27/18 21:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.7	2.5	1	11/27/18 11:39	11/27/18 21:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.7	2.6	1	11/27/18 11:39	11/27/18 21:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	517	180	1	11/27/18 11:39	11/27/18 21:15	96-12-8	
Dibromochloromethane	ND	ug/kg	207	6.0	1	11/27/18 11:39	11/27/18 21:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.7	5.4	1	11/27/18 11:39	11/27/18 21:15	106-93-4	
Dibromomethane	ND	ug/kg	51.7	9.5	1	11/27/18 11:39	11/27/18 21:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.7	2.1	1	11/27/18 11:39	11/27/18 21:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.7	1.9	1	11/27/18 11:39	11/27/18 21:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.7	3.2	1	11/27/18 11:39	11/27/18 21:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	207	16.7	1	11/27/18 11:39	11/27/18 21:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.7	5.8	1	11/27/18 11:39	11/27/18 21:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.7	5.7	1	11/27/18 11:39	11/27/18 21:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	207	15.5	1	11/27/18 11:39	11/27/18 21:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.7	8.6	1	11/27/18 11:39	11/27/18 21:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.7	24.2	1	11/27/18 11:39	11/27/18 21:15	156-60-5	
Dichlorofluoromethane	ND	ug/kg	517	71.4	1	11/27/18 11:39	11/27/18 21:15	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	51.7	8.9	1	11/27/18 11:39	11/27/18 21:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.7	7.1	1	11/27/18 11:39	11/27/18 21:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	207	6.4	1	11/27/18 11:39	11/27/18 21:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	207	23.9	1	11/27/18 11:39	11/27/18 21:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.7	7.4	1	11/27/18 11:39	11/27/18 21:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.7	7.2	1	11/27/18 11:39	11/27/18 21:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	207	31.6	1	11/27/18 11:39	11/27/18 21:15	60-29-7	
Ethylbenzene	ND	ug/kg	51.7	2.8	1	11/27/18 11:39	11/27/18 21:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	258	12.6	1	11/27/18 11:39	11/27/18 21:15	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-6 (2-4) **Lab ID: 10456270011** Collected: 11/16/18 11:30 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.7	2.3	1	11/27/18 11:39	11/27/18 21:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	207	15.7	1	11/27/18 11:39	11/27/18 21:15	99-87-6	
Methylene Chloride	ND	ug/kg	207	97.2	1	11/27/18 11:39	11/27/18 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	258	10.7	1	11/27/18 11:39	11/27/18 21:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.7	6.1	1	11/27/18 11:39	11/27/18 21:15	1634-04-4	
Naphthalene	ND	ug/kg	207	48.4	1	11/27/18 11:39	11/27/18 21:15	91-20-3	
n-Propylbenzene	ND	ug/kg	51.7	2.8	1	11/27/18 11:39	11/27/18 21:15	103-65-1	
Styrene	ND	ug/kg	51.7	2.4	1	11/27/18 11:39	11/27/18 21:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.7	16.2	1	11/27/18 11:39	11/27/18 21:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.7	9.1	1	11/27/18 11:39	11/27/18 21:15	79-34-5	
Tetrachloroethene	**147**	ug/kg	51.7	18.2	1	11/27/18 11:39	11/27/18 21:15	127-18-4	
Tetrahydrofuran	ND	ug/kg	2070	75.1	1	11/27/18 11:39	11/27/18 21:15	109-99-9	
Toluene	ND	ug/kg	51.7	12.6	1	11/27/18 11:39	11/27/18 21:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.7	8.3	1	11/27/18 11:39	11/27/18 21:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.7	11.5	1	11/27/18 11:39	11/27/18 21:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	207	24.1	1	11/27/18 11:39	11/27/18 21:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.7	6.2	1	11/27/18 11:39	11/27/18 21:15	79-00-5	
Trichloroethene	ND	ug/kg	51.7	8.0	1	11/27/18 11:39	11/27/18 21:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	207	90.1	1	11/27/18 11:39	11/27/18 21:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	207	13.5	1	11/27/18 11:39	11/27/18 21:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	207	59.9	1	11/27/18 11:39	11/27/18 21:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.7	10.3	1	11/27/18 11:39	11/27/18 21:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.7	8.2	1	11/27/18 11:39	11/27/18 21:15	108-67-8	
Vinyl chloride	ND	ug/kg	51.7	10.2	1	11/27/18 11:39	11/27/18 21:15	75-01-4	
Xylene (Total)	ND	ug/kg	155	12.0	1	11/27/18 11:39	11/27/18 21:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-125		1	11/27/18 11:39	11/27/18 21:15	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 21:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 21:15	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-6 (10-12) **Lab ID: 10456270012** Collected: 11/16/18 11:35 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**12.9**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1160	362	1	11/27/18 11:39	11/27/18 21:33	67-64-1	
Allyl chloride	ND	ug/kg	233	48.8	1	11/27/18 11:39	11/27/18 21:33	107-05-1	
Benzene	ND	ug/kg	23.3	3.3	1	11/27/18 11:39	11/27/18 21:33	71-43-2	
Bromobenzene	ND	ug/kg	58.2	3.6	1	11/27/18 11:39	11/27/18 21:33	108-86-1	
Bromochloromethane	ND	ug/kg	58.2	20.1	1	11/27/18 11:39	11/27/18 21:33	74-97-5	
Bromodichloromethane	ND	ug/kg	58.2	19.9	1	11/27/18 11:39	11/27/18 21:33	75-27-4	
Bromoform	ND	ug/kg	233	88.1	1	11/27/18 11:39	11/27/18 21:33	75-25-2	
Bromomethane	ND	ug/kg	582	68.1	1	11/27/18 11:39	11/27/18 21:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	291	31.0	1	11/27/18 11:39	11/27/18 21:33	78-93-3	
n-Butylbenzene	ND	ug/kg	58.2	27.7	1	11/27/18 11:39	11/27/18 21:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.2	11.1	1	11/27/18 11:39	11/27/18 21:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.2	11.2	1	11/27/18 11:39	11/27/18 21:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.2	27.8	1	11/27/18 11:39	11/27/18 21:33	56-23-5	
Chlorobenzene	ND	ug/kg	58.2	3.3	1	11/27/18 11:39	11/27/18 21:33	108-90-7	
Chloroethane	ND	ug/kg	582	30.3	1	11/27/18 11:39	11/27/18 21:33	75-00-3	
Chloroform	ND	ug/kg	58.2	29.1	1	11/27/18 11:39	11/27/18 21:33	67-66-3	
Chloromethane	ND	ug/kg	233	14.0	1	11/27/18 11:39	11/27/18 21:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.2	2.9	1	11/27/18 11:39	11/27/18 21:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.2	3.0	1	11/27/18 11:39	11/27/18 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	582	202	1	11/27/18 11:39	11/27/18 21:33	96-12-8	
Dibromochloromethane	ND	ug/kg	233	6.7	1	11/27/18 11:39	11/27/18 21:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.2	6.1	1	11/27/18 11:39	11/27/18 21:33	106-93-4	
Dibromomethane	ND	ug/kg	58.2	10.7	1	11/27/18 11:39	11/27/18 21:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.2	2.4	1	11/27/18 11:39	11/27/18 21:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.2	2.1	1	11/27/18 11:39	11/27/18 21:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.2	3.6	1	11/27/18 11:39	11/27/18 21:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	18.8	1	11/27/18 11:39	11/27/18 21:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.2	6.5	1	11/27/18 11:39	11/27/18 21:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.2	6.4	1	11/27/18 11:39	11/27/18 21:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	233	17.5	1	11/27/18 11:39	11/27/18 21:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.2	9.6	1	11/27/18 11:39	11/27/18 21:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.2	27.2	1	11/27/18 11:39	11/27/18 21:33	156-60-5	
Dichlorofluoromethane	ND	ug/kg	582	80.4	1	11/27/18 11:39	11/27/18 21:33	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	58.2	10.0	1	11/27/18 11:39	11/27/18 21:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.2	8.1	1	11/27/18 11:39	11/27/18 21:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	7.3	1	11/27/18 11:39	11/27/18 21:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	233	26.9	1	11/27/18 11:39	11/27/18 21:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.2	8.3	1	11/27/18 11:39	11/27/18 21:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.2	8.1	1	11/27/18 11:39	11/27/18 21:33	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	35.6	1	11/27/18 11:39	11/27/18 21:33	60-29-7	
Ethylbenzene	ND	ug/kg	58.2	3.2	1	11/27/18 11:39	11/27/18 21:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	291	14.2	1	11/27/18 11:39	11/27/18 21:33	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-6 (10-12) **Lab ID: 10456270012** Collected: 11/16/18 11:35 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	58.2	2.6	1	11/27/18 11:39	11/27/18 21:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	233	17.7	1	11/27/18 11:39	11/27/18 21:33	99-87-6	
Methylene Chloride	ND	ug/kg	233	109	1	11/27/18 11:39	11/27/18 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	291	12.1	1	11/27/18 11:39	11/27/18 21:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.2	6.9	1	11/27/18 11:39	11/27/18 21:33	1634-04-4	
Naphthalene	ND	ug/kg	233	54.5	1	11/27/18 11:39	11/27/18 21:33	91-20-3	
n-Propylbenzene	ND	ug/kg	58.2	3.1	1	11/27/18 11:39	11/27/18 21:33	103-65-1	
Styrene	ND	ug/kg	58.2	2.7	1	11/27/18 11:39	11/27/18 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.2	18.3	1	11/27/18 11:39	11/27/18 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.2	10.3	1	11/27/18 11:39	11/27/18 21:33	79-34-5	
Tetrachloroethene	ND	ug/kg	58.2	20.5	1	11/27/18 11:39	11/27/18 21:33	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	84.6	1	11/27/18 11:39	11/27/18 21:33	109-99-9	
Toluene	ND	ug/kg	58.2	14.2	1	11/27/18 11:39	11/27/18 21:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.2	9.3	1	11/27/18 11:39	11/27/18 21:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.2	12.9	1	11/27/18 11:39	11/27/18 21:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	233	27.1	1	11/27/18 11:39	11/27/18 21:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.2	7.0	1	11/27/18 11:39	11/27/18 21:33	79-00-5	
Trichloroethene	ND	ug/kg	58.2	9.0	1	11/27/18 11:39	11/27/18 21:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	101	1	11/27/18 11:39	11/27/18 21:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	15.2	1	11/27/18 11:39	11/27/18 21:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	67.5	1	11/27/18 11:39	11/27/18 21:33	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.2	11.6	1	11/27/18 11:39	11/27/18 21:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.2	9.3	1	11/27/18 11:39	11/27/18 21:33	108-67-8	
Vinyl chloride	ND	ug/kg	58.2	11.4	1	11/27/18 11:39	11/27/18 21:33	75-01-4	
Xylene (Total)	ND	ug/kg	175	13.5	1	11/27/18 11:39	11/27/18 21:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-125		1	11/27/18 11:39	11/27/18 21:33	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 21:33	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 21:33	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-7 (2-4) **Lab ID: 10456270013** Collected: 11/16/18 11:50 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**4.7**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1030	322	1	11/27/18 11:39	11/27/18 21:50	67-64-1	
Allyl chloride	ND	ug/kg	207	43.4	1	11/27/18 11:39	11/27/18 21:50	107-05-1	
Benzene	ND	ug/kg	20.7	2.9	1	11/27/18 11:39	11/27/18 21:50	71-43-2	
Bromobenzene	ND	ug/kg	51.7	3.2	1	11/27/18 11:39	11/27/18 21:50	108-86-1	
Bromochloromethane	ND	ug/kg	51.7	17.9	1	11/27/18 11:39	11/27/18 21:50	74-97-5	
Bromodichloromethane	ND	ug/kg	51.7	17.7	1	11/27/18 11:39	11/27/18 21:50	75-27-4	
Bromoform	ND	ug/kg	207	78.3	1	11/27/18 11:39	11/27/18 21:50	75-25-2	
Bromomethane	ND	ug/kg	517	60.5	1	11/27/18 11:39	11/27/18 21:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	259	27.5	1	11/27/18 11:39	11/27/18 21:50	78-93-3	
n-Butylbenzene	ND	ug/kg	51.7	24.6	1	11/27/18 11:39	11/27/18 21:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.7	9.9	1	11/27/18 11:39	11/27/18 21:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.7	9.9	1	11/27/18 11:39	11/27/18 21:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.7	24.7	1	11/27/18 11:39	11/27/18 21:50	56-23-5	
Chlorobenzene	ND	ug/kg	51.7	2.9	1	11/27/18 11:39	11/27/18 21:50	108-90-7	
Chloroethane	ND	ug/kg	517	26.9	1	11/27/18 11:39	11/27/18 21:50	75-00-3	
Chloroform	ND	ug/kg	51.7	25.9	1	11/27/18 11:39	11/27/18 21:50	67-66-3	
Chloromethane	ND	ug/kg	207	12.4	1	11/27/18 11:39	11/27/18 21:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.7	2.5	1	11/27/18 11:39	11/27/18 21:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.7	2.6	1	11/27/18 11:39	11/27/18 21:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	517	180	1	11/27/18 11:39	11/27/18 21:50	96-12-8	
Dibromochloromethane	ND	ug/kg	207	6.0	1	11/27/18 11:39	11/27/18 21:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.7	5.4	1	11/27/18 11:39	11/27/18 21:50	106-93-4	
Dibromomethane	ND	ug/kg	51.7	9.5	1	11/27/18 11:39	11/27/18 21:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.7	2.1	1	11/27/18 11:39	11/27/18 21:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.7	1.9	1	11/27/18 11:39	11/27/18 21:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.7	3.2	1	11/27/18 11:39	11/27/18 21:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	207	16.8	1	11/27/18 11:39	11/27/18 21:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.7	5.8	1	11/27/18 11:39	11/27/18 21:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.7	5.7	1	11/27/18 11:39	11/27/18 21:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	207	15.5	1	11/27/18 11:39	11/27/18 21:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.7	8.6	1	11/27/18 11:39	11/27/18 21:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.7	24.2	1	11/27/18 11:39	11/27/18 21:50	156-60-5	
Dichlorofluoromethane	ND	ug/kg	517	71.5	1	11/27/18 11:39	11/27/18 21:50	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	51.7	8.9	1	11/27/18 11:39	11/27/18 21:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.7	7.2	1	11/27/18 11:39	11/27/18 21:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	207	6.5	1	11/27/18 11:39	11/27/18 21:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	207	23.9	1	11/27/18 11:39	11/27/18 21:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.7	7.4	1	11/27/18 11:39	11/27/18 21:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.7	7.2	1	11/27/18 11:39	11/27/18 21:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	207	31.7	1	11/27/18 11:39	11/27/18 21:50	60-29-7	
Ethylbenzene	ND	ug/kg	51.7	2.8	1	11/27/18 11:39	11/27/18 21:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	259	12.6	1	11/27/18 11:39	11/27/18 21:50	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-7 (2-4) **Lab ID: 10456270013** Collected: 11/16/18 11:50 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.7	2.3	1	11/27/18 11:39	11/27/18 21:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	207	15.7	1	11/27/18 11:39	11/27/18 21:50	99-87-6	
Methylene Chloride	ND	ug/kg	207	97.4	1	11/27/18 11:39	11/27/18 21:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	259	10.8	1	11/27/18 11:39	11/27/18 21:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.7	6.2	1	11/27/18 11:39	11/27/18 21:50	1634-04-4	
Naphthalene	ND	ug/kg	207	48.4	1	11/27/18 11:39	11/27/18 21:50	91-20-3	
n-Propylbenzene	ND	ug/kg	51.7	2.8	1	11/27/18 11:39	11/27/18 21:50	103-65-1	
Styrene	ND	ug/kg	51.7	2.4	1	11/27/18 11:39	11/27/18 21:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.7	16.2	1	11/27/18 11:39	11/27/18 21:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.7	9.1	1	11/27/18 11:39	11/27/18 21:50	79-34-5	
Tetrachloroethene	ND	ug/kg	51.7	18.2	1	11/27/18 11:39	11/27/18 21:50	127-18-4	
Tetrahydrofuran	ND	ug/kg	2070	75.2	1	11/27/18 11:39	11/27/18 21:50	109-99-9	
Toluene	ND	ug/kg	51.7	12.6	1	11/27/18 11:39	11/27/18 21:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.7	8.3	1	11/27/18 11:39	11/27/18 21:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.7	11.5	1	11/27/18 11:39	11/27/18 21:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	207	24.1	1	11/27/18 11:39	11/27/18 21:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.7	6.2	1	11/27/18 11:39	11/27/18 21:50	79-00-5	
Trichloroethene	ND	ug/kg	51.7	8.0	1	11/27/18 11:39	11/27/18 21:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	207	90.2	1	11/27/18 11:39	11/27/18 21:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	207	13.6	1	11/27/18 11:39	11/27/18 21:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	207	60.0	1	11/27/18 11:39	11/27/18 21:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.7	10.3	1	11/27/18 11:39	11/27/18 21:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.7	8.2	1	11/27/18 11:39	11/27/18 21:50	108-67-8	
Vinyl chloride	ND	ug/kg	51.7	10.2	1	11/27/18 11:39	11/27/18 21:50	75-01-4	
Xylene (Total)	ND	ug/kg	155	12.0	1	11/27/18 11:39	11/27/18 21:50	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	75-125		1	11/27/18 11:39	11/27/18 21:50	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 21:50	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 21:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-7 (10-12) **Lab ID: 10456270014** Collected: 11/16/18 11:55 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**3.6**	%	0.10	0.10	1		11/28/18 14:33		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1010	313	1	11/27/18 11:39	11/27/18 22:08	67-64-1	
Allyl chloride	ND	ug/kg	201	42.2	1	11/27/18 11:39	11/27/18 22:08	107-05-1	
Benzene	ND	ug/kg	20.1	2.8	1	11/27/18 11:39	11/27/18 22:08	71-43-2	
Bromobenzene	ND	ug/kg	50.4	3.1	1	11/27/18 11:39	11/27/18 22:08	108-86-1	
Bromochloromethane	ND	ug/kg	50.4	17.4	1	11/27/18 11:39	11/27/18 22:08	74-97-5	
Bromodichloromethane	ND	ug/kg	50.4	17.2	1	11/27/18 11:39	11/27/18 22:08	75-27-4	
Bromoform	ND	ug/kg	201	76.3	1	11/27/18 11:39	11/27/18 22:08	75-25-2	
Bromomethane	ND	ug/kg	504	58.9	1	11/27/18 11:39	11/27/18 22:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	252	26.8	1	11/27/18 11:39	11/27/18 22:08	78-93-3	
n-Butylbenzene	ND	ug/kg	50.4	24.0	1	11/27/18 11:39	11/27/18 22:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.4	9.7	1	11/27/18 11:39	11/27/18 22:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.4	9.7	1	11/27/18 11:39	11/27/18 22:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.4	24.1	1	11/27/18 11:39	11/27/18 22:08	56-23-5	
Chlorobenzene	ND	ug/kg	50.4	2.8	1	11/27/18 11:39	11/27/18 22:08	108-90-7	
Chloroethane	ND	ug/kg	504	26.2	1	11/27/18 11:39	11/27/18 22:08	75-00-3	
Chloroform	ND	ug/kg	50.4	25.2	1	11/27/18 11:39	11/27/18 22:08	67-66-3	
Chloromethane	ND	ug/kg	201	12.1	1	11/27/18 11:39	11/27/18 22:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.4	2.5	1	11/27/18 11:39	11/27/18 22:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.4	2.6	1	11/27/18 11:39	11/27/18 22:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	504	175	1	11/27/18 11:39	11/27/18 22:08	96-12-8	
Dibromochloromethane	ND	ug/kg	201	5.8	1	11/27/18 11:39	11/27/18 22:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.4	5.3	1	11/27/18 11:39	11/27/18 22:08	106-93-4	
Dibromomethane	ND	ug/kg	50.4	9.2	1	11/27/18 11:39	11/27/18 22:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.4	2.0	1	11/27/18 11:39	11/27/18 22:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.4	1.8	1	11/27/18 11:39	11/27/18 22:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.4	3.1	1	11/27/18 11:39	11/27/18 22:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	201	16.3	1	11/27/18 11:39	11/27/18 22:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.4	5.7	1	11/27/18 11:39	11/27/18 22:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.4	5.5	1	11/27/18 11:39	11/27/18 22:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	201	15.1	1	11/27/18 11:39	11/27/18 22:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.4	8.4	1	11/27/18 11:39	11/27/18 22:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.4	23.6	1	11/27/18 11:39	11/27/18 22:08	156-60-5	
Dichlorofluoromethane	ND	ug/kg	504	69.6	1	11/27/18 11:39	11/27/18 22:08	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	50.4	8.7	1	11/27/18 11:39	11/27/18 22:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.4	7.0	1	11/27/18 11:39	11/27/18 22:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	201	6.3	1	11/27/18 11:39	11/27/18 22:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	201	23.3	1	11/27/18 11:39	11/27/18 22:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.4	7.2	1	11/27/18 11:39	11/27/18 22:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.4	7.0	1	11/27/18 11:39	11/27/18 22:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	201	30.8	1	11/27/18 11:39	11/27/18 22:08	60-29-7	
Ethylbenzene	ND	ug/kg	50.4	2.7	1	11/27/18 11:39	11/27/18 22:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	252	12.3	1	11/27/18 11:39	11/27/18 22:08	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-7 (10-12) **Lab ID: 10456270014** Collected: 11/16/18 11:55 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	50.4	2.2	1	11/27/18 11:39	11/27/18 22:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	201	15.3	1	11/27/18 11:39	11/27/18 22:08	99-87-6	
Methylene Chloride	ND	ug/kg	201	94.8	1	11/27/18 11:39	11/27/18 22:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	252	10.5	1	11/27/18 11:39	11/27/18 22:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.4	6.0	1	11/27/18 11:39	11/27/18 22:08	1634-04-4	
Naphthalene	ND	ug/kg	201	47.1	1	11/27/18 11:39	11/27/18 22:08	91-20-3	
n-Propylbenzene	ND	ug/kg	50.4	2.7	1	11/27/18 11:39	11/27/18 22:08	103-65-1	
Styrene	ND	ug/kg	50.4	2.3	1	11/27/18 11:39	11/27/18 22:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.4	15.8	1	11/27/18 11:39	11/27/18 22:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.4	8.9	1	11/27/18 11:39	11/27/18 22:08	79-34-5	
Tetrachloroethene	ND	ug/kg	50.4	17.7	1	11/27/18 11:39	11/27/18 22:08	127-18-4	
Tetrahydrofuran	ND	ug/kg	2010	73.2	1	11/27/18 11:39	11/27/18 22:08	109-99-9	
Toluene	ND	ug/kg	50.4	12.3	1	11/27/18 11:39	11/27/18 22:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.4	8.0	1	11/27/18 11:39	11/27/18 22:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.4	11.2	1	11/27/18 11:39	11/27/18 22:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	201	23.5	1	11/27/18 11:39	11/27/18 22:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.4	6.0	1	11/27/18 11:39	11/27/18 22:08	79-00-5	
Trichloroethene	ND	ug/kg	50.4	7.8	1	11/27/18 11:39	11/27/18 22:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	201	87.8	1	11/27/18 11:39	11/27/18 22:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	201	13.2	1	11/27/18 11:39	11/27/18 22:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	201	58.4	1	11/27/18 11:39	11/27/18 22:08	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.4	10.1	1	11/27/18 11:39	11/27/18 22:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.4	8.0	1	11/27/18 11:39	11/27/18 22:08	108-67-8	
Vinyl chloride	ND	ug/kg	50.4	9.9	1	11/27/18 11:39	11/27/18 22:08	75-01-4	
Xylene (Total)	ND	ug/kg	151	11.7	1	11/27/18 11:39	11/27/18 22:08	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-125		1	11/27/18 11:39	11/27/18 22:08	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 22:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1	11/27/18 11:39	11/27/18 22:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 (14-16) **Lab ID: 10456270015** Collected: 11/16/18 12:35 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**7.1**	%	0.10	0.10	1		11/28/18 14:34		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1050	327	1	11/27/18 11:39	11/27/18 22:25	67-64-1	
Allyl chloride	ND	ug/kg	210	44.1	1	11/27/18 11:39	11/27/18 22:25	107-05-1	
Benzene	ND	ug/kg	21.0	3.0	1	11/27/18 11:39	11/27/18 22:25	71-43-2	
Bromobenzene	ND	ug/kg	52.6	3.2	1	11/27/18 11:39	11/27/18 22:25	108-86-1	
Bromochloromethane	ND	ug/kg	52.6	18.2	1	11/27/18 11:39	11/27/18 22:25	74-97-5	
Bromodichloromethane	ND	ug/kg	52.6	18.0	1	11/27/18 11:39	11/27/18 22:25	75-27-4	
Bromoform	ND	ug/kg	210	79.6	1	11/27/18 11:39	11/27/18 22:25	75-25-2	
Bromomethane	ND	ug/kg	526	61.5	1	11/27/18 11:39	11/27/18 22:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	263	28.0	1	11/27/18 11:39	11/27/18 22:25	78-93-3	
n-Butylbenzene	ND	ug/kg	52.6	25.0	1	11/27/18 11:39	11/27/18 22:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.6	10.1	1	11/27/18 11:39	11/27/18 22:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.6	10.1	1	11/27/18 11:39	11/27/18 22:25	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.6	25.1	1	11/27/18 11:39	11/27/18 22:25	56-23-5	
Chlorobenzene	ND	ug/kg	52.6	3.0	1	11/27/18 11:39	11/27/18 22:25	108-90-7	
Chloroethane	ND	ug/kg	526	27.3	1	11/27/18 11:39	11/27/18 22:25	75-00-3	
Chloroform	ND	ug/kg	52.6	26.3	1	11/27/18 11:39	11/27/18 22:25	67-66-3	
Chloromethane	ND	ug/kg	210	12.6	1	11/27/18 11:39	11/27/18 22:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.6	2.6	1	11/27/18 11:39	11/27/18 22:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.6	2.7	1	11/27/18 11:39	11/27/18 22:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	526	183	1	11/27/18 11:39	11/27/18 22:25	96-12-8	
Dibromochloromethane	ND	ug/kg	210	6.1	1	11/27/18 11:39	11/27/18 22:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.6	5.5	1	11/27/18 11:39	11/27/18 22:25	106-93-4	
Dibromomethane	ND	ug/kg	52.6	9.6	1	11/27/18 11:39	11/27/18 22:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.6	2.1	1	11/27/18 11:39	11/27/18 22:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.6	1.9	1	11/27/18 11:39	11/27/18 22:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.6	3.3	1	11/27/18 11:39	11/27/18 22:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	210	17.0	1	11/27/18 11:39	11/27/18 22:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.6	5.9	1	11/27/18 11:39	11/27/18 22:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.6	5.8	1	11/27/18 11:39	11/27/18 22:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	210	15.8	1	11/27/18 11:39	11/27/18 22:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.6	8.7	1	11/27/18 11:39	11/27/18 22:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.6	24.6	1	11/27/18 11:39	11/27/18 22:25	156-60-5	
Dichlorofluoromethane	ND	ug/kg	526	72.6	1	11/27/18 11:39	11/27/18 22:25	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	52.6	9.1	1	11/27/18 11:39	11/27/18 22:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.6	7.3	1	11/27/18 11:39	11/27/18 22:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	210	6.6	1	11/27/18 11:39	11/27/18 22:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	210	24.3	1	11/27/18 11:39	11/27/18 22:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.6	7.5	1	11/27/18 11:39	11/27/18 22:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.6	7.3	1	11/27/18 11:39	11/27/18 22:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	210	32.2	1	11/27/18 11:39	11/27/18 22:25	60-29-7	
Ethylbenzene	ND	ug/kg	52.6	2.9	1	11/27/18 11:39	11/27/18 22:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	263	12.8	1	11/27/18 11:39	11/27/18 22:25	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 (14-16) **Lab ID: 10456270015** Collected: 11/16/18 12:35 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	52.6	2.3	1	11/27/18 11:39	11/27/18 22:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	210	16.0	1	11/27/18 11:39	11/27/18 22:25	99-87-6	
Methylene Chloride	ND	ug/kg	210	98.9	1	11/27/18 11:39	11/27/18 22:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	263	10.9	1	11/27/18 11:39	11/27/18 22:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.6	6.3	1	11/27/18 11:39	11/27/18 22:25	1634-04-4	
Naphthalene	ND	ug/kg	210	49.2	1	11/27/18 11:39	11/27/18 22:25	91-20-3	
n-Propylbenzene	ND	ug/kg	52.6	2.8	1	11/27/18 11:39	11/27/18 22:25	103-65-1	
Styrene	ND	ug/kg	52.6	2.4	1	11/27/18 11:39	11/27/18 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.6	16.5	1	11/27/18 11:39	11/27/18 22:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.6	9.3	1	11/27/18 11:39	11/27/18 22:25	79-34-5	
Tetrachloroethene	ND	ug/kg	52.6	18.5	1	11/27/18 11:39	11/27/18 22:25	127-18-4	
Tetrahydrofuran	ND	ug/kg	2100	76.4	1	11/27/18 11:39	11/27/18 22:25	109-99-9	
Toluene	ND	ug/kg	52.6	12.8	1	11/27/18 11:39	11/27/18 22:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.6	8.4	1	11/27/18 11:39	11/27/18 22:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.6	11.7	1	11/27/18 11:39	11/27/18 22:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	210	24.5	1	11/27/18 11:39	11/27/18 22:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.6	6.3	1	11/27/18 11:39	11/27/18 22:25	79-00-5	
Trichloroethene	ND	ug/kg	52.6	8.1	1	11/27/18 11:39	11/27/18 22:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	210	91.7	1	11/27/18 11:39	11/27/18 22:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	210	13.8	1	11/27/18 11:39	11/27/18 22:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	210	61.0	1	11/27/18 11:39	11/27/18 22:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.6	10.5	1	11/27/18 11:39	11/27/18 22:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.6	8.4	1	11/27/18 11:39	11/27/18 22:25	108-67-8	
Vinyl chloride	ND	ug/kg	52.6	10.3	1	11/27/18 11:39	11/27/18 22:25	75-01-4	
Xylene (Total)	ND	ug/kg	158	12.2	1	11/27/18 11:39	11/27/18 22:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%.	75-125		1	11/27/18 11:39	11/27/18 22:25	17060-07-0	
Toluene-d8 (S)	104	%.	75-125		1	11/27/18 11:39	11/27/18 22:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	11/27/18 11:39	11/27/18 22:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 (34-36) **Lab ID: 10456270016** Collected: 11/16/18 12:40 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**13.7**	%	0.10	0.10	1		11/28/18 14:34		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1160	360	1	11/27/18 11:39	11/27/18 22:43	67-64-1	
Allyl chloride	ND	ug/kg	231	48.5	1	11/27/18 11:39	11/27/18 22:43	107-05-1	
Benzene	ND	ug/kg	23.1	3.3	1	11/27/18 11:39	11/27/18 22:43	71-43-2	
Bromobenzene	ND	ug/kg	57.8	3.6	1	11/27/18 11:39	11/27/18 22:43	108-86-1	
Bromochloromethane	ND	ug/kg	57.8	20.0	1	11/27/18 11:39	11/27/18 22:43	74-97-5	
Bromodichloromethane	ND	ug/kg	57.8	19.8	1	11/27/18 11:39	11/27/18 22:43	75-27-4	
Bromoform	ND	ug/kg	231	87.6	1	11/27/18 11:39	11/27/18 22:43	75-25-2	
Bromomethane	ND	ug/kg	578	67.7	1	11/27/18 11:39	11/27/18 22:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	289	30.8	1	11/27/18 11:39	11/27/18 22:43	78-93-3	
n-Butylbenzene	ND	ug/kg	57.8	27.5	1	11/27/18 11:39	11/27/18 22:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.8	11.1	1	11/27/18 11:39	11/27/18 22:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.8	11.1	1	11/27/18 11:39	11/27/18 22:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.8	27.7	1	11/27/18 11:39	11/27/18 22:43	56-23-5	
Chlorobenzene	ND	ug/kg	57.8	3.3	1	11/27/18 11:39	11/27/18 22:43	108-90-7	
Chloroethane	ND	ug/kg	578	30.1	1	11/27/18 11:39	11/27/18 22:43	75-00-3	
Chloroform	ND	ug/kg	57.8	28.9	1	11/27/18 11:39	11/27/18 22:43	67-66-3	
Chloromethane	ND	ug/kg	231	13.9	1	11/27/18 11:39	11/27/18 22:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.8	2.8	1	11/27/18 11:39	11/27/18 22:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.8	3.0	1	11/27/18 11:39	11/27/18 22:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	578	201	1	11/27/18 11:39	11/27/18 22:43	96-12-8	
Dibromochloromethane	ND	ug/kg	231	6.7	1	11/27/18 11:39	11/27/18 22:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.8	6.1	1	11/27/18 11:39	11/27/18 22:43	106-93-4	
Dibromomethane	ND	ug/kg	57.8	10.6	1	11/27/18 11:39	11/27/18 22:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.8	2.3	1	11/27/18 11:39	11/27/18 22:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.8	2.1	1	11/27/18 11:39	11/27/18 22:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.8	3.6	1	11/27/18 11:39	11/27/18 22:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	231	18.7	1	11/27/18 11:39	11/27/18 22:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.8	6.5	1	11/27/18 11:39	11/27/18 22:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.8	6.4	1	11/27/18 11:39	11/27/18 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	231	17.4	1	11/27/18 11:39	11/27/18 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.8	9.6	1	11/27/18 11:39	11/27/18 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.8	27.1	1	11/27/18 11:39	11/27/18 22:43	156-60-5	
Dichlorofluoromethane	ND	ug/kg	578	79.9	1	11/27/18 11:39	11/27/18 22:43	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	57.8	10	1	11/27/18 11:39	11/27/18 22:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.8	8.0	1	11/27/18 11:39	11/27/18 22:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	231	7.2	1	11/27/18 11:39	11/27/18 22:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	231	26.7	1	11/27/18 11:39	11/27/18 22:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.8	8.3	1	11/27/18 11:39	11/27/18 22:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.8	8.0	1	11/27/18 11:39	11/27/18 22:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	231	35.4	1	11/27/18 11:39	11/27/18 22:43	60-29-7	
Ethylbenzene	ND	ug/kg	57.8	3.1	1	11/27/18 11:39	11/27/18 22:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	289	14.1	1	11/27/18 11:39	11/27/18 22:43	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 (34-36) **Lab ID: 10456270016** Collected: 11/16/18 12:40 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	57.8	2.6	1	11/27/18 11:39	11/27/18 22:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	231	17.6	1	11/27/18 11:39	11/27/18 22:43	99-87-6	
Methylene Chloride	ND	ug/kg	231	109	1	11/27/18 11:39	11/27/18 22:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	289	12.0	1	11/27/18 11:39	11/27/18 22:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.8	6.9	1	11/27/18 11:39	11/27/18 22:43	1634-04-4	
Naphthalene	ND	ug/kg	231	54.1	1	11/27/18 11:39	11/27/18 22:43	91-20-3	
n-Propylbenzene	ND	ug/kg	57.8	3.1	1	11/27/18 11:39	11/27/18 22:43	103-65-1	
Styrene	ND	ug/kg	57.8	2.6	1	11/27/18 11:39	11/27/18 22:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.8	18.2	1	11/27/18 11:39	11/27/18 22:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.8	10.2	1	11/27/18 11:39	11/27/18 22:43	79-34-5	
Tetrachloroethene	ND	ug/kg	57.8	20.4	1	11/27/18 11:39	11/27/18 22:43	127-18-4	
Tetrahydrofuran	ND	ug/kg	2310	84.1	1	11/27/18 11:39	11/27/18 22:43	109-99-9	
Toluene	ND	ug/kg	57.8	14.1	1	11/27/18 11:39	11/27/18 22:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.8	9.2	1	11/27/18 11:39	11/27/18 22:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.8	12.8	1	11/27/18 11:39	11/27/18 22:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	231	27.0	1	11/27/18 11:39	11/27/18 22:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.8	6.9	1	11/27/18 11:39	11/27/18 22:43	79-00-5	
Trichloroethene	ND	ug/kg	57.8	8.9	1	11/27/18 11:39	11/27/18 22:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	231	101	1	11/27/18 11:39	11/27/18 22:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	231	15.2	1	11/27/18 11:39	11/27/18 22:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	231	67.1	1	11/27/18 11:39	11/27/18 22:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.8	11.6	1	11/27/18 11:39	11/27/18 22:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.8	9.2	1	11/27/18 11:39	11/27/18 22:43	108-67-8	
Vinyl chloride	ND	ug/kg	57.8	11.4	1	11/27/18 11:39	11/27/18 22:43	75-01-4	
Xylene (Total)	ND	ug/kg	174	13.4	1	11/27/18 11:39	11/27/18 22:43	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	115	%.	75-125		1	11/27/18 11:39	11/27/18 22:43	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1	11/27/18 11:39	11/27/18 22:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 22:43	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 (2-4) **Lab ID: 10456270017** Collected: 11/16/18 14:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**3.8**	%	0.10	0.10	1		11/28/18 14:34		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1030	319	1	11/27/18 11:39	11/27/18 23:00	67-64-1	
Allyl chloride	ND	ug/kg	205	43.0	1	11/27/18 11:39	11/27/18 23:00	107-05-1	
Benzene	ND	ug/kg	20.5	2.9	1	11/27/18 11:39	11/27/18 23:00	71-43-2	
Bromobenzene	ND	ug/kg	51.3	3.2	1	11/27/18 11:39	11/27/18 23:00	108-86-1	
Bromochloromethane	ND	ug/kg	51.3	17.8	1	11/27/18 11:39	11/27/18 23:00	74-97-5	
Bromodichloromethane	ND	ug/kg	51.3	17.6	1	11/27/18 11:39	11/27/18 23:00	75-27-4	
Bromoform	ND	ug/kg	205	77.7	1	11/27/18 11:39	11/27/18 23:00	75-25-2	
Bromomethane	ND	ug/kg	513	60.1	1	11/27/18 11:39	11/27/18 23:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	257	27.3	1	11/27/18 11:39	11/27/18 23:00	78-93-3	
n-Butylbenzene	ND	ug/kg	51.3	24.4	1	11/27/18 11:39	11/27/18 23:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	51.3	9.8	1	11/27/18 11:39	11/27/18 23:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	51.3	9.9	1	11/27/18 11:39	11/27/18 23:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	51.3	24.5	1	11/27/18 11:39	11/27/18 23:00	56-23-5	
Chlorobenzene	ND	ug/kg	51.3	2.9	1	11/27/18 11:39	11/27/18 23:00	108-90-7	
Chloroethane	ND	ug/kg	513	26.7	1	11/27/18 11:39	11/27/18 23:00	75-00-3	
Chloroform	ND	ug/kg	51.3	25.7	1	11/27/18 11:39	11/27/18 23:00	67-66-3	
Chloromethane	ND	ug/kg	205	12.3	1	11/27/18 11:39	11/27/18 23:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	51.3	2.5	1	11/27/18 11:39	11/27/18 23:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	51.3	2.6	1	11/27/18 11:39	11/27/18 23:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	513	179	1	11/27/18 11:39	11/27/18 23:00	96-12-8	
Dibromochloromethane	ND	ug/kg	205	6.0	1	11/27/18 11:39	11/27/18 23:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	51.3	5.4	1	11/27/18 11:39	11/27/18 23:00	106-93-4	
Dibromomethane	ND	ug/kg	51.3	9.4	1	11/27/18 11:39	11/27/18 23:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	51.3	2.1	1	11/27/18 11:39	11/27/18 23:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	51.3	1.9	1	11/27/18 11:39	11/27/18 23:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	51.3	3.2	1	11/27/18 11:39	11/27/18 23:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	205	16.6	1	11/27/18 11:39	11/27/18 23:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	51.3	5.8	1	11/27/18 11:39	11/27/18 23:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	51.3	5.6	1	11/27/18 11:39	11/27/18 23:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	205	15.4	1	11/27/18 11:39	11/27/18 23:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	51.3	8.5	1	11/27/18 11:39	11/27/18 23:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	51.3	24.0	1	11/27/18 11:39	11/27/18 23:00	156-60-5	
Dichlorofluoromethane	ND	ug/kg	513	70.9	1	11/27/18 11:39	11/27/18 23:00	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	51.3	8.8	1	11/27/18 11:39	11/27/18 23:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	51.3	7.1	1	11/27/18 11:39	11/27/18 23:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	205	6.4	1	11/27/18 11:39	11/27/18 23:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	205	23.7	1	11/27/18 11:39	11/27/18 23:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	51.3	7.4	1	11/27/18 11:39	11/27/18 23:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	51.3	7.1	1	11/27/18 11:39	11/27/18 23:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	205	31.4	1	11/27/18 11:39	11/27/18 23:00	60-29-7	
Ethylbenzene	ND	ug/kg	51.3	2.8	1	11/27/18 11:39	11/27/18 23:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	257	12.5	1	11/27/18 11:39	11/27/18 23:00	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 (2-4) **Lab ID: 10456270017** Collected: 11/16/18 14:00 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	51.3	2.3	1	11/27/18 11:39	11/27/18 23:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	205	15.6	1	11/27/18 11:39	11/27/18 23:00	99-87-6	
Methylene Chloride	ND	ug/kg	205	96.6	1	11/27/18 11:39	11/27/18 23:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	257	10.7	1	11/27/18 11:39	11/27/18 23:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	51.3	6.1	1	11/27/18 11:39	11/27/18 23:00	1634-04-4	
Naphthalene	ND	ug/kg	205	48.0	1	11/27/18 11:39	11/27/18 23:00	91-20-3	
n-Propylbenzene	ND	ug/kg	51.3	2.7	1	11/27/18 11:39	11/27/18 23:00	103-65-1	
Styrene	ND	ug/kg	51.3	2.3	1	11/27/18 11:39	11/27/18 23:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	51.3	16.1	1	11/27/18 11:39	11/27/18 23:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	51.3	9.0	1	11/27/18 11:39	11/27/18 23:00	79-34-5	
Tetrachloroethene	ND	ug/kg	51.3	18.1	1	11/27/18 11:39	11/27/18 23:00	127-18-4	
Tetrahydrofuran	ND	ug/kg	2050	74.6	1	11/27/18 11:39	11/27/18 23:00	109-99-9	
Toluene	ND	ug/kg	51.3	12.5	1	11/27/18 11:39	11/27/18 23:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	51.3	8.2	1	11/27/18 11:39	11/27/18 23:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	51.3	11.4	1	11/27/18 11:39	11/27/18 23:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	205	23.9	1	11/27/18 11:39	11/27/18 23:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	51.3	6.1	1	11/27/18 11:39	11/27/18 23:00	79-00-5	
Trichloroethene	ND	ug/kg	51.3	7.9	1	11/27/18 11:39	11/27/18 23:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	205	89.5	1	11/27/18 11:39	11/27/18 23:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	205	13.4	1	11/27/18 11:39	11/27/18 23:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	205	59.5	1	11/27/18 11:39	11/27/18 23:00	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	51.3	10.3	1	11/27/18 11:39	11/27/18 23:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	51.3	8.2	1	11/27/18 11:39	11/27/18 23:00	108-67-8	
Vinyl chloride	ND	ug/kg	51.3	10.1	1	11/27/18 11:39	11/27/18 23:00	75-01-4	
Xylene (Total)	ND	ug/kg	154	11.9	1	11/27/18 11:39	11/27/18 23:00	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	75-125		1	11/27/18 11:39	11/27/18 23:00	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1	11/27/18 11:39	11/27/18 23:00	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1	11/27/18 11:39	11/27/18 23:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 (34-36) **Lab ID: 10456270018** Collected: 11/16/18 14:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	**11.6**	%	0.10	0.10	1		11/28/18 14:34		
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Acetone	ND	ug/kg	1130	351	1	11/27/18 11:39	11/27/18 23:17	67-64-1	
Allyl chloride	ND	ug/kg	226	47.3	1	11/27/18 11:39	11/27/18 23:17	107-05-1	
Benzene	ND	ug/kg	22.6	3.2	1	11/27/18 11:39	11/27/18 23:17	71-43-2	
Bromobenzene	ND	ug/kg	56.4	3.5	1	11/27/18 11:39	11/27/18 23:17	108-86-1	
Bromochloromethane	ND	ug/kg	56.4	19.5	1	11/27/18 11:39	11/27/18 23:17	74-97-5	
Bromodichloromethane	ND	ug/kg	56.4	19.3	1	11/27/18 11:39	11/27/18 23:17	75-27-4	
Bromoform	ND	ug/kg	226	85.4	1	11/27/18 11:39	11/27/18 23:17	75-25-2	
Bromomethane	ND	ug/kg	564	66.0	1	11/27/18 11:39	11/27/18 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	282	30.0	1	11/27/18 11:39	11/27/18 23:17	78-93-3	
n-Butylbenzene	ND	ug/kg	56.4	26.9	1	11/27/18 11:39	11/27/18 23:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.4	10.8	1	11/27/18 11:39	11/27/18 23:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.4	10.8	1	11/27/18 11:39	11/27/18 23:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.4	27.0	1	11/27/18 11:39	11/27/18 23:17	56-23-5	
Chlorobenzene	ND	ug/kg	56.4	3.2	1	11/27/18 11:39	11/27/18 23:17	108-90-7	
Chloroethane	ND	ug/kg	564	29.3	1	11/27/18 11:39	11/27/18 23:17	75-00-3	
Chloroform	ND	ug/kg	56.4	28.2	1	11/27/18 11:39	11/27/18 23:17	67-66-3	
Chloromethane	ND	ug/kg	226	13.5	1	11/27/18 11:39	11/27/18 23:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.4	2.8	1	11/27/18 11:39	11/27/18 23:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.4	2.9	1	11/27/18 11:39	11/27/18 23:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	564	196	1	11/27/18 11:39	11/27/18 23:17	96-12-8	
Dibromochloromethane	ND	ug/kg	226	6.5	1	11/27/18 11:39	11/27/18 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.4	5.9	1	11/27/18 11:39	11/27/18 23:17	106-93-4	
Dibromomethane	ND	ug/kg	56.4	10.4	1	11/27/18 11:39	11/27/18 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.4	2.3	1	11/27/18 11:39	11/27/18 23:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.4	2.1	1	11/27/18 11:39	11/27/18 23:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.4	3.5	1	11/27/18 11:39	11/27/18 23:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	226	18.3	1	11/27/18 11:39	11/27/18 23:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.4	6.3	1	11/27/18 11:39	11/27/18 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.4	6.2	1	11/27/18 11:39	11/27/18 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	226	16.9	1	11/27/18 11:39	11/27/18 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.4	9.4	1	11/27/18 11:39	11/27/18 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.4	26.4	1	11/27/18 11:39	11/27/18 23:17	156-60-5	
Dichlorofluoromethane	ND	ug/kg	564	78.0	1	11/27/18 11:39	11/27/18 23:17	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	56.4	9.7	1	11/27/18 11:39	11/27/18 23:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.4	7.8	1	11/27/18 11:39	11/27/18 23:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	226	7.0	1	11/27/18 11:39	11/27/18 23:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	226	26.1	1	11/27/18 11:39	11/27/18 23:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.4	8.1	1	11/27/18 11:39	11/27/18 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.4	7.8	1	11/27/18 11:39	11/27/18 23:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	226	34.5	1	11/27/18 11:39	11/27/18 23:17	60-29-7	
Ethylbenzene	ND	ug/kg	56.4	3.1	1	11/27/18 11:39	11/27/18 23:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	282	13.8	1	11/27/18 11:39	11/27/18 23:17	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 (34-36) **Lab ID: 10456270018** Collected: 11/16/18 14:05 Received: 11/20/18 11:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Isopropylbenzene (Cumene)	ND	ug/kg	56.4	2.5	1	11/27/18 11:39	11/27/18 23:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	226	17.2	1	11/27/18 11:39	11/27/18 23:17	99-87-6	
Methylene Chloride	ND	ug/kg	226	106	1	11/27/18 11:39	11/27/18 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	282	11.7	1	11/27/18 11:39	11/27/18 23:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.4	6.7	1	11/27/18 11:39	11/27/18 23:17	1634-04-4	
Naphthalene	ND	ug/kg	226	52.8	1	11/27/18 11:39	11/27/18 23:17	91-20-3	
n-Propylbenzene	ND	ug/kg	56.4	3.0	1	11/27/18 11:39	11/27/18 23:17	103-65-1	
Styrene	ND	ug/kg	56.4	2.6	1	11/27/18 11:39	11/27/18 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.4	17.7	1	11/27/18 11:39	11/27/18 23:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.4	9.9	1	11/27/18 11:39	11/27/18 23:17	79-34-5	
Tetrachloroethene	ND	ug/kg	56.4	19.9	1	11/27/18 11:39	11/27/18 23:17	127-18-4	
Tetrahydrofuran	ND	ug/kg	2260	82.1	1	11/27/18 11:39	11/27/18 23:17	109-99-9	
Toluene	ND	ug/kg	56.4	13.8	1	11/27/18 11:39	11/27/18 23:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.4	9.0	1	11/27/18 11:39	11/27/18 23:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.4	12.5	1	11/27/18 11:39	11/27/18 23:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	226	26.3	1	11/27/18 11:39	11/27/18 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.4	6.7	1	11/27/18 11:39	11/27/18 23:17	79-00-5	
Trichloroethene	ND	ug/kg	56.4	8.7	1	11/27/18 11:39	11/27/18 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	226	98.4	1	11/27/18 11:39	11/27/18 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	226	14.8	1	11/27/18 11:39	11/27/18 23:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	226	65.5	1	11/27/18 11:39	11/27/18 23:17	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.4	11.3	1	11/27/18 11:39	11/27/18 23:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.4	9.0	1	11/27/18 11:39	11/27/18 23:17	108-67-8	
Vinyl chloride	ND	ug/kg	56.4	11.1	1	11/27/18 11:39	11/27/18 23:17	75-01-4	
Xylene (Total)	ND	ug/kg	169	13.1	1	11/27/18 11:39	11/27/18 23:17	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	115	%.	75-125		1	11/27/18 11:39	11/27/18 23:17	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1	11/27/18 11:39	11/27/18 23:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1	11/27/18 11:39	11/27/18 23:17	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 **Lab ID: 10456270019** Collected: 11/16/18 13:15 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**4330**	ug/L	100	46.2	5		11/28/18 18:25	67-64-1	
Allyl chloride	ND	ug/L	20.0	1.4	5		11/28/18 18:25	107-05-1	
Benzene	ND	ug/L	5.0	0.51	5		11/28/18 18:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.0	5		11/28/18 18:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1.4	5		11/28/18 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.1	5		11/28/18 18:25	75-27-4	
Bromoform	ND	ug/L	20.0	4.0	5		11/28/18 18:25	75-25-2	
Bromomethane	ND	ug/L	20.0	9.1	5		11/28/18 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5.0	5		11/28/18 18:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1.2	5		11/28/18 18:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	0.76	5		11/28/18 18:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	0.74	5		11/28/18 18:25	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	0.94	5		11/28/18 18:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.86	5		11/28/18 18:25	108-90-7	
Chloroethane	ND	ug/L	5.0	2.4	5		11/28/18 18:25	75-00-3	
Chloroform	ND	ug/L	20.0	2.2	5		11/28/18 18:25	67-66-3	
Chloromethane	ND	ug/L	20.0	0.78	5		11/28/18 18:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	0.82	5		11/28/18 18:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	0.67	5		11/28/18 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	8.3	5		11/28/18 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	2.3	5		11/28/18 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.2	5		11/28/18 18:25	106-93-4	
Dibromomethane	ND	ug/L	20.0	2.0	5		11/28/18 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.68	5		11/28/18 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.80	5		11/28/18 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	0.84	5		11/28/18 18:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.2	5		11/28/18 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.85	5		11/28/18 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.1	5		11/28/18 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.80	5		11/28/18 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.77	5		11/28/18 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.2	5		11/28/18 18:25	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	0.70	5		11/28/18 18:25	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	20.0	0.82	5		11/28/18 18:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	0.86	5		11/28/18 18:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	0.86	5		11/28/18 18:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.99	5		11/28/18 18:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	1.0	5		11/28/18 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	0.91	5		11/28/18 18:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	0.48	5		11/28/18 18:25	60-29-7	
Ethylbenzene	ND	ug/L	5.0	0.69	5		11/28/18 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.6	5		11/28/18 18:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	0.92	5		11/28/18 18:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	0.76	5		11/28/18 18:25	99-87-6	
Methylene Chloride	ND	ug/L	20.0	4.9	5		11/28/18 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	2.1	5		11/28/18 18:25	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-8 **Lab ID: 10456270019** Collected: 11/16/18 13:15 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Methyl-tert-butyl ether	ND	ug/L	5.0	0.80	5		11/28/18 18:25	1634-04-4	
Naphthalene	ND	ug/L	20.0	2.4	5		11/28/18 18:25	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	0.50	5		11/28/18 18:25	103-65-1	
Styrene	ND	ug/L	5.0	0.94	5		11/28/18 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.98	5		11/28/18 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.85	5		11/28/18 18:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.85	5		11/28/18 18:25	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	11.1	5		11/28/18 18:25	109-99-9	
Toluene	ND	ug/L	5.0	0.42	5		11/28/18 18:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.0	5		11/28/18 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.0	5		11/28/18 18:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.68	5		11/28/18 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.90	5		11/28/18 18:25	79-00-5	
Trichloroethene	ND	ug/L	2.0	0.76	5		11/28/18 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.2	5		11/28/18 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	1.3	5		11/28/18 18:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.4	5		11/28/18 18:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	0.98	5		11/28/18 18:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	0.61	5		11/28/18 18:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.46	5		11/28/18 18:25	75-01-4	
Xylene (Total)	ND	ug/L	15.0	1.5	5		11/28/18 18:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-125		5		11/28/18 18:25	17060-07-0	
Toluene-d8 (S)	103	%.	75-125		5		11/28/18 18:25	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		5		11/28/18 18:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 **Lab ID: 10456270020** Collected: 11/16/18 14:10 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	20.0	9.2	1		11/28/18 18:01	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.29	1		11/28/18 18:01	107-05-1	
Benzene	ND	ug/L	1.0	0.10	1		11/28/18 18:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.21	1		11/28/18 18:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.27	1		11/28/18 18:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.22	1		11/28/18 18:01	75-27-4	
Bromoform	ND	ug/L	4.0	0.80	1		11/28/18 18:01	75-25-2	
Bromomethane	ND	ug/L	4.0	1.8	1		11/28/18 18:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.99	1		11/28/18 18:01	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.24	1		11/28/18 18:01	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.15	1		11/28/18 18:01	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.15	1		11/28/18 18:01	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.19	1		11/28/18 18:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.17	1		11/28/18 18:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		11/28/18 18:01	75-00-3	
Chloroform	ND	ug/L	4.0	0.45	1		11/28/18 18:01	67-66-3	
Chloromethane	ND	ug/L	4.0	0.16	1		11/28/18 18:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.16	1		11/28/18 18:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		11/28/18 18:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1.7	1		11/28/18 18:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.46	1		11/28/18 18:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.24	1		11/28/18 18:01	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.39	1		11/28/18 18:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.14	1		11/28/18 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		11/28/18 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.17	1		11/28/18 18:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		11/28/18 18:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		11/28/18 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		11/28/18 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.16	1		11/28/18 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		11/28/18 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		11/28/18 18:01	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.14	1		11/28/18 18:01	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	0.16	1		11/28/18 18:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		11/28/18 18:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.17	1		11/28/18 18:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.20	1		11/28/18 18:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.20	1		11/28/18 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.18	1		11/28/18 18:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.095	1		11/28/18 18:01	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.14	1		11/28/18 18:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.31	1		11/28/18 18:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.18	1		11/28/18 18:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.15	1		11/28/18 18:01	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.98	1		11/28/18 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		11/28/18 18:01	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: GP-9 **Lab ID: 10456270020** Collected: 11/16/18 14:10 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		11/28/18 18:01	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.48	1		11/28/18 18:01	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		11/28/18 18:01	103-65-1	
Styrene	ND	ug/L	1.0	0.19	1		11/28/18 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		11/28/18 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		11/28/18 18:01	79-34-5	
Tetrachloroethene	**10.4**	ug/L	1.0	0.17	1		11/28/18 18:01	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.2	1		11/28/18 18:01	109-99-9	
Toluene	ND	ug/L	1.0	0.083	1		11/28/18 18:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		11/28/18 18:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.20	1		11/28/18 18:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.14	1		11/28/18 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.18	1		11/28/18 18:01	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.15	1		11/28/18 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.23	1		11/28/18 18:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.26	1		11/28/18 18:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.47	1		11/28/18 18:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.20	1		11/28/18 18:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		11/28/18 18:01	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.092	1		11/28/18 18:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.31	1		11/28/18 18:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-125		1		11/28/18 18:01	17060-07-0	HS
Toluene-d8 (S)	102	%.	75-125		1		11/28/18 18:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		11/28/18 18:01	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: Trip Blank **Lab ID: 10456270021** Collected: 11/16/18 00:00 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	20.0	9.2	1		11/28/18 15:14	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.29	1		11/28/18 15:14	107-05-1	
Benzene	ND	ug/L	1.0	0.10	1		11/28/18 15:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.21	1		11/28/18 15:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.27	1		11/28/18 15:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.22	1		11/28/18 15:14	75-27-4	
Bromoform	ND	ug/L	4.0	0.80	1		11/28/18 15:14	75-25-2	
Bromomethane	ND	ug/L	4.0	1.8	1		11/28/18 15:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.99	1		11/28/18 15:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.24	1		11/28/18 15:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.15	1		11/28/18 15:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.15	1		11/28/18 15:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.19	1		11/28/18 15:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.17	1		11/28/18 15:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		11/28/18 15:14	75-00-3	
Chloroform	ND	ug/L	4.0	0.45	1		11/28/18 15:14	67-66-3	
Chloromethane	ND	ug/L	4.0	0.16	1		11/28/18 15:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.16	1		11/28/18 15:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		11/28/18 15:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1.7	1		11/28/18 15:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.46	1		11/28/18 15:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.24	1		11/28/18 15:14	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.39	1		11/28/18 15:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.14	1		11/28/18 15:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		11/28/18 15:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.17	1		11/28/18 15:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		11/28/18 15:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		11/28/18 15:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		11/28/18 15:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.16	1		11/28/18 15:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		11/28/18 15:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		11/28/18 15:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.14	1		11/28/18 15:14	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	0.16	1		11/28/18 15:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		11/28/18 15:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.17	1		11/28/18 15:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.20	1		11/28/18 15:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.20	1		11/28/18 15:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.18	1		11/28/18 15:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.095	1		11/28/18 15:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.14	1		11/28/18 15:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.31	1		11/28/18 15:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.18	1		11/28/18 15:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.15	1		11/28/18 15:14	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.98	1		11/28/18 15:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.42	1		11/28/18 15:14	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Sample: Trip Blank **Lab ID: 10456270021** Collected: 11/16/18 00:00 Received: 11/20/18 11:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		11/28/18 15:14	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.48	1		11/28/18 15:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		11/28/18 15:14	103-65-1	
Styrene	ND	ug/L	1.0	0.19	1		11/28/18 15:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		11/28/18 15:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		11/28/18 15:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.17	1		11/28/18 15:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.2	1		11/28/18 15:14	109-99-9	
Toluene	ND	ug/L	1.0	0.083	1		11/28/18 15:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		11/28/18 15:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.20	1		11/28/18 15:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.14	1		11/28/18 15:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.18	1		11/28/18 15:14	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.15	1		11/28/18 15:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.23	1		11/28/18 15:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.26	1		11/28/18 15:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.47	1		11/28/18 15:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.20	1		11/28/18 15:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		11/28/18 15:14	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.092	1		11/28/18 15:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.31	1		11/28/18 15:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-125		1		11/28/18 15:14	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		1		11/28/18 15:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125		1		11/28/18 15:14	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

QC Batch: 577302 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10456270001, 10456270002, 10456270003, 10456270004, 10456270005, 10456270006, 10456270007, 10456270008, 10456270009, 10456270010, 10456270011, 10456270012, 10456270013, 10456270014, 10456270015, 10456270016, 10456270017, 10456270018

SAMPLE DUPLICATE: 3133969

Parameter	Units	10456270003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.7	4.5	4	30	

SAMPLE DUPLICATE: 3133970

Parameter	Units	10456270015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	7.2	1	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

QC Batch: 577346 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10456270001, 10456270002, 10456270003, 10456270004, 10456270005, 10456270006, 10456270007, 10456270008, 10456270009, 10456270010, 10456270011, 10456270012, 10456270013, 10456270014, 10456270015, 10456270016, 10456270017, 10456270018

METHOD BLANK: 3132417 Matrix: Solid
Associated Lab Samples: 10456270001, 10456270002, 10456270003, 10456270004, 10456270005, 10456270006, 10456270007, 10456270008, 10456270009, 10456270010, 10456270011, 10456270012, 10456270013, 10456270014, 10456270015, 10456270016, 10456270017, 10456270018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	11/27/18 17:29	
1,1,1-Trichloroethane	ug/kg	ND	200	11/27/18 17:29	MN
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	11/27/18 17:29	
1,1,2-Trichloroethane	ug/kg	ND	50.0	11/27/18 17:29	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	11/27/18 17:29	
1,1-Dichloroethane	ug/kg	ND	50.0	11/27/18 17:29	
1,1-Dichloroethene	ug/kg	ND	200	11/27/18 17:29	MN
1,1-Dichloropropene	ug/kg	ND	200	11/27/18 17:29	MN
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,2,3-Trichloropropane	ug/kg	ND	200	11/27/18 17:29	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	11/27/18 17:29	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	11/27/18 17:29	
1,2-Dichlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,2-Dichloroethane	ug/kg	ND	50.0	11/27/18 17:29	
1,2-Dichloropropane	ug/kg	ND	50.0	11/27/18 17:29	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,3-Dichlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
1,3-Dichloropropane	ug/kg	ND	50.0	11/27/18 17:29	
1,4-Dichlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
2,2-Dichloropropane	ug/kg	ND	200	11/27/18 17:29	
2-Butanone (MEK)	ug/kg	ND	250	11/27/18 17:29	
2-Chlorotoluene	ug/kg	ND	50.0	11/27/18 17:29	
4-Chlorotoluene	ug/kg	ND	50.0	11/27/18 17:29	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	11/27/18 17:29	
Acetone	ug/kg	ND	1000	11/27/18 17:29	
Allyl chloride	ug/kg	ND	200	11/27/18 17:29	
Benzene	ug/kg	ND	20.0	11/27/18 17:29	
Bromobenzene	ug/kg	ND	50.0	11/27/18 17:29	
Bromochloromethane	ug/kg	ND	50.0	11/27/18 17:29	
Bromodichloromethane	ug/kg	ND	50.0	11/27/18 17:29	
Bromoform	ug/kg	ND	200	11/27/18 17:29	
Bromomethane	ug/kg	ND	500	11/27/18 17:29	
Carbon tetrachloride	ug/kg	ND	50.0	11/27/18 17:29	
Chlorobenzene	ug/kg	ND	50.0	11/27/18 17:29	
Chloroethane	ug/kg	ND	500	11/27/18 17:29	
Chloroform	ug/kg	ND	50.0	11/27/18 17:29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

METHOD BLANK: 3132417 Matrix: Solid

Associated Lab Samples: 10456270001, 10456270002, 10456270003, 10456270004, 10456270005, 10456270006, 10456270007, 10456270008, 10456270009, 10456270010, 10456270011, 10456270012, 10456270013, 10456270014, 10456270015, 10456270016, 10456270017, 10456270018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	200	11/27/18 17:29	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	11/27/18 17:29	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	11/27/18 17:29	
Dibromochloromethane	ug/kg	ND	200	11/27/18 17:29	
Dibromomethane	ug/kg	ND	50.0	11/27/18 17:29	
Dichlorodifluoromethane	ug/kg	ND	200	11/27/18 17:29	
Dichlorofluoromethane	ug/kg	ND	500	11/27/18 17:29	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	200	11/27/18 17:29	
Ethylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
Hexachloro-1,3-butadiene	ug/kg	ND	250	11/27/18 17:29	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	11/27/18 17:29	
Methyl-tert-butyl ether	ug/kg	ND	50.0	11/27/18 17:29	
Methylene Chloride	ug/kg	ND	200	11/27/18 17:29	
n-Butylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
n-Propylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
Naphthalene	ug/kg	ND	200	11/27/18 17:29	
p-Isopropyltoluene	ug/kg	ND	200	11/27/18 17:29	MN
sec-Butylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
Styrene	ug/kg	ND	50.0	11/27/18 17:29	
tert-Butylbenzene	ug/kg	ND	50.0	11/27/18 17:29	
Tetrachloroethene	ug/kg	ND	50.0	11/27/18 17:29	
Tetrahydrofuran	ug/kg	ND	2000	11/27/18 17:29	
Toluene	ug/kg	ND	50.0	11/27/18 17:29	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	11/27/18 17:29	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	11/27/18 17:29	
Trichloroethene	ug/kg	ND	50.0	11/27/18 17:29	
Trichlorofluoromethane	ug/kg	ND	200	11/27/18 17:29	
Vinyl chloride	ug/kg	ND	50.0	11/27/18 17:29	MN
Xylene (Total)	ug/kg	ND	150	11/27/18 17:29	
1,2-Dichloroethane-d4 (S)	%.	104	75-125	11/27/18 17:29	
4-Bromofluorobenzene (S)	%.	99	75-125	11/27/18 17:29	
Toluene-d8 (S)	%.	101	75-125	11/27/18 17:29	

LABORATORY CONTROL SAMPLE: 3132418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	857	86	59-125	
1,1,1-Trichloroethane	ug/kg	1000	909	91	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	810	81	58-125	
1,1,2-Trichloroethane	ug/kg	1000	884	88	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	873	87	65-125	
1,1-Dichloroethane	ug/kg	1000	939	94	63-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

LABORATORY CONTROL SAMPLE: 3132418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1000	793	79	59-125	
1,1-Dichloropropene	ug/kg	1000	928	93	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	885	89	55-126	
1,2,3-Trichloropropane	ug/kg	1000	850	85	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	844	84	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	861	86	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2080	83	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	896	90	64-125	
1,2-Dichlorobenzene	ug/kg	1000	818	82	63-125	
1,2-Dichloroethane	ug/kg	1000	795	79	57-125	
1,2-Dichloropropane	ug/kg	1000	804	80	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	885	89	59-125	
1,3-Dichlorobenzene	ug/kg	1000	861	86	64-125	
1,3-Dichloropropane	ug/kg	1000	854	85	64-125	
1,4-Dichlorobenzene	ug/kg	1000	828	83	63-125	
2,2-Dichloropropane	ug/kg	1000	971	97	37-126	
2-Butanone (MEK)	ug/kg	5000	4180	84	48-125	
2-Chlorotoluene	ug/kg	1000	836	84	62-125	
4-Chlorotoluene	ug/kg	1000	875	88	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4170	83	52-135	
Acetone	ug/kg	5000	4150	83	65-125	
Allyl chloride	ug/kg	1000	972	97	52-125	
Benzene	ug/kg	1000	927	93	61-125	
Bromobenzene	ug/kg	1000	826	83	64-125	
Bromochloromethane	ug/kg	1000	884	88	65-125	
Bromodichloromethane	ug/kg	1000	799	80	57-125	
Bromoform	ug/kg	1000	786	79	57-125	
Bromomethane	ug/kg	1000	1340	134	60-125	L3
Carbon tetrachloride	ug/kg	1000	1040	104	58-125	
Chlorobenzene	ug/kg	1000	822	82	66-125	
Chloroethane	ug/kg	1000	1100	110	62-125	
Chloroform	ug/kg	1000	905	90	59-125	
Chloromethane	ug/kg	1000	999	100	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	918	92	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	826	83	61-125	
Dibromochloromethane	ug/kg	1000	826	83	60-125	
Dibromomethane	ug/kg	1000	814	81	69-125	
Dichlorodifluoromethane	ug/kg	1000	904	90	38-125	
Dichlorofluoromethane	ug/kg	1000	1210	121	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	993	99	60-125	
Ethylbenzene	ug/kg	1000	813	81	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	966	97	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	876	88	65-125	
Methyl-tert-butyl ether	ug/kg	1000	881	88	59-125	
Methylene Chloride	ug/kg	1000	912	91	64-125	
n-Butylbenzene	ug/kg	1000	1010	101	59-125	
n-Propylbenzene	ug/kg	1000	889	89	61-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

LABORATORY CONTROL SAMPLE: 3132418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1000	802	80	53-125	
p-Isopropyltoluene	ug/kg	1000	870	87	63-125	
sec-Butylbenzene	ug/kg	1000	981	98	62-125	
Styrene	ug/kg	1000	838	84	66-125	
tert-Butylbenzene	ug/kg	1000	894	89	64-125	
Tetrachloroethene	ug/kg	1000	944	94	67-125	
Tetrahydrofuran	ug/kg	10000	8770	88	62-125	
Toluene	ug/kg	1000	826	83	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	992	99	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	872	87	56-125	
Trichloroethene	ug/kg	1000	876	88	67-125	
Trichlorofluoromethane	ug/kg	1000	1260	126	65-125	L3
Vinyl chloride	ug/kg	1000	1090	109	57-125	
Xylene (Total)	ug/kg	3000	2540	85	62-125	
1,2-Dichloroethane-d4 (S)	%.			105	75-125	
4-Bromofluorobenzene (S)	%.			101	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3132622 3132623

Parameter	Units	10456280002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1020	1000	1200	1170	117	117	64-146	2	30	
1,1,1-Trichloroethane	ug/kg	ND	1020	1000	1230	1200	120	120	56-148	2	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1020	1000	1100	1100	107	110	36-150	0	30	
1,1,2-Trichloroethane	ug/kg	ND	1020	1000	1200	1180	117	117	67-148	2	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1020	1000	1090	1280	106	128	60-142	16	30	
1,1-Dichloroethane	ug/kg	ND	1020	1000	1230	1200	120	120	57-140	2	30	
1,1-Dichloroethene	ug/kg	ND	1020	1000	1030	1240	101	124	59-139	18	30	
1,1-Dichloropropene	ug/kg	ND	1020	1000	1210	1180	118	118	61-142	2	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1020	1000	1160	1160	113	116	69-150	0	30	
1,2,3-Trichloropropane	ug/kg	ND	1020	1000	1150	1180	112	118	64-150	3	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1020	1000	1170	1150	114	115	71-149	1	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1020	1000	1220	1220	119	122	67-149	1	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2560	2510	3010	3030	118	121	61-150	0	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1020	1000	1210	1210	119	120	67-147	1	30	
1,2-Dichlorobenzene	ug/kg	ND	1020	1000	1130	1140	110	114	70-142	2	30	
1,2-Dichloroethane	ug/kg	ND	1020	1000	1070	1040	105	104	58-132	3	30	
1,2-Dichloropropane	ug/kg	ND	1020	1000	1140	1120	112	112	64-144	2	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1020	1000	1240	1240	121	123	71-146	0	30	
1,3-Dichlorobenzene	ug/kg	ND	1020	1000	1170	1190	114	118	71-142	2	30	
1,3-Dichloropropane	ug/kg	ND	1020	1000	1170	1150	114	114	68-140	2	30	
1,4-Dichlorobenzene	ug/kg	ND	1020	1000	1090	1130	106	112	68-142	4	30	
2,2-Dichloropropane	ug/kg	ND	1020	1000	1330	1280	130	128	34-150	4	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3132622 3132623

Parameter	Units	10456280002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/kg	ND	5120	5020	5680	5570	111	111	51-150	2	30	
2-Chlorotoluene	ug/kg	ND	1020	1000	1170	1210	114	121	66-144	4	30	
4-Chlorotoluene	ug/kg	ND	1020	1000	1200	1210	117	121	66-140	1	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5120	5020	5980	5870	117	117	63-150	2	30	
Acetone	ug/kg	ND	5120	5020	5300	5280	104	105	54-150	0	30	
Allyl chloride	ug/kg	ND	1020	1000	1240	1190	121	119	53-135	4	30	
Benzene	ug/kg	ND	1020	1000	1260	1220	123	121	65-135	3	30	
Bromobenzene	ug/kg	ND	1020	1000	1120	1160	110	116	71-141	3	30	
Bromochloromethane	ug/kg	ND	1020	1000	1170	1110	115	111	62-145	5	30	
Bromodichloromethane	ug/kg	ND	1020	1000	1130	1120	110	112	59-148	1	30	
Bromoform	ug/kg	ND	1020	1000	1140	1110	111	111	57-145	2	30	
Bromomethane	ug/kg	ND	1020	1000	1280	1200	125	120	51-129	6	30	
Carbon tetrachloride	ug/kg	ND	1020	1000	1360	1320	133	131	55-144	3	30	
Chlorobenzene	ug/kg	ND	1020	1000	1170	1150	115	115	70-142	2	30	
Chloroethane	ug/kg	ND	1020	1000	1010	1060	98	106	61-135	5	30	
Chloroform	ug/kg	ND	1020	1000	1240	1170	122	117	58-135	6	30	
Chloromethane	ug/kg	ND	1020	1000	1060	1030	103	103	37-125	3	30	
cis-1,2-Dichloroethene	ug/kg	ND	1020	1000	1210	1200	118	120	60-138	1	30	
cis-1,3-Dichloropropene	ug/kg	ND	1020	1000	1170	1170	114	117	62-142	0	30	
Dibromochloromethane	ug/kg	ND	1020	1000	1170	1130	114	113	65-141	3	30	
Dibromomethane	ug/kg	ND	1020	1000	1160	1100	114	110	72-150	6	30	
Dichlorodifluoromethane	ug/kg	ND	1020	1000	857	866	84	86	30-125	1	30	
Dichlorofluoromethane	ug/kg	ND	1020	1000	1100	1140	108	113	62-148	3	30	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1020	1000	1030	1170	100	117	62-135	13	30	
Ethylbenzene	ug/kg	ND	1020	1000	1140	1140	112	114	72-138	0	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1020	1000	1420	1330	139	133	38-150	7	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1020	1000	1240	1270	121	127	75-148	2	30	
Methyl-tert-butyl ether	ug/kg	ND	1020	1000	1200	1160	117	116	63-139	3	30	
Methylene Chloride	ug/kg	ND	1020	1000	1200	1150	117	115	58-135	4	30	
n-Butylbenzene	ug/kg	ND	1020	1000	1370	1350	134	135	63-150	2	30	
n-Propylbenzene	ug/kg	ND	1020	1000	1240	1260	121	126	70-146	2	30	
Naphthalene	ug/kg	ND	1020	1000	1150	1170	112	117	63-150	2	30	
p-Isopropyltoluene	ug/kg	ND	1020	1000	1190	1200	116	120	72-150	1	30	
sec-Butylbenzene	ug/kg	ND	1020	1000	1350	1370	132	137	66-150	1	30	
Styrene	ug/kg	ND	1020	1000	1140	1150	112	115	72-146	0	30	
tert-Butylbenzene	ug/kg	ND	1020	1000	1240	1260	121	125	71-148	1	30	
Tetrachloroethene	ug/kg	ND	1020	1000	1340	1310	131	131	70-150	2	30	
Tetrahydrofuran	ug/kg	ND	10200	10000	11600	11200	114	112	62-150	4	30	
Toluene	ug/kg	ND	1020	1000	1150	1120	112	112	65-142	2	30	
trans-1,2-Dichloroethene	ug/kg	ND	1020	1000	1300	1270	127	127	55-141	2	30	
trans-1,3-Dichloropropene	ug/kg	ND	1020	1000	1200	1160	117	116	57-147	3	30	
Trichloroethene	ug/kg	ND	1020	1000	1220	1230	119	123	62-150	1	30	
Trichlorofluoromethane	ug/kg	ND	1020	1000	1140	1130	111	112	51-150	1	30	
Vinyl chloride	ug/kg	ND	1020	1000	1170	1110	114	111	45-132	5	30	
Xylene (Total)	ug/kg	ND	3080	3010	3630	3670	118	122	75-140	1	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3132622 3132623

Parameter	Units	10456280002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%.						101	99	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						102	101	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

QC Batch: 577657 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10456270019, 10456270020, 10456270021

METHOD BLANK: 3133743 Matrix: Water
Associated Lab Samples: 10456270019, 10456270020, 10456270021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1-Dichloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,1-Dichloroethene	ug/L	ND	1.0	11/28/18 13:14	
1,1-Dichloropropene	ug/L	ND	1.0	11/28/18 13:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
1,2,3-Trichloropropane	ug/L	ND	4.0	11/28/18 13:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/28/18 13:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	11/28/18 13:14	MN
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/28/18 13:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
1,2-Dichloroethane	ug/L	ND	1.0	11/28/18 13:14	
1,2-Dichloropropane	ug/L	ND	4.0	11/28/18 13:14	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/28/18 13:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
1,3-Dichloropropane	ug/L	ND	1.0	11/28/18 13:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
2,2-Dichloropropane	ug/L	ND	4.0	11/28/18 13:14	
2-Butanone (MEK)	ug/L	ND	5.0	11/28/18 13:14	
2-Chlorotoluene	ug/L	ND	1.0	11/28/18 13:14	
4-Chlorotoluene	ug/L	ND	1.0	11/28/18 13:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/28/18 13:14	
Acetone	ug/L	ND	20.0	11/28/18 13:14	
Allyl chloride	ug/L	ND	4.0	11/28/18 13:14	
Benzene	ug/L	ND	1.0	11/28/18 13:14	
Bromobenzene	ug/L	ND	1.0	11/28/18 13:14	
Bromochloromethane	ug/L	ND	1.0	11/28/18 13:14	
Bromodichloromethane	ug/L	ND	1.0	11/28/18 13:14	
Bromoform	ug/L	ND	4.0	11/28/18 13:14	
Bromomethane	ug/L	ND	4.0	11/28/18 13:14	
Carbon tetrachloride	ug/L	ND	1.0	11/28/18 13:14	
Chlorobenzene	ug/L	ND	1.0	11/28/18 13:14	
Chloroethane	ug/L	ND	1.0	11/28/18 13:14	
Chloroform	ug/L	ND	4.0	11/28/18 13:14	MN
Chloromethane	ug/L	ND	4.0	11/28/18 13:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/28/18 13:14	
cis-1,3-Dichloropropene	ug/L	ND	4.0	11/28/18 13:14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

METHOD BLANK: 3133743 Matrix: Water
Associated Lab Samples: 10456270019, 10456270020, 10456270021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	11/28/18 13:14	
Dibromomethane	ug/L	ND	4.0	11/28/18 13:14	
Dichlorodifluoromethane	ug/L	ND	1.0	11/28/18 13:14	
Dichlorofluoromethane	ug/L	ND	1.0	11/28/18 13:14	N2
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	11/28/18 13:14	
Ethylbenzene	ug/L	ND	1.0	11/28/18 13:14	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/28/18 13:14	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/28/18 13:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/28/18 13:14	
Methylene Chloride	ug/L	ND	4.0	11/28/18 13:14	
n-Butylbenzene	ug/L	ND	1.0	11/28/18 13:14	
n-Propylbenzene	ug/L	ND	1.0	11/28/18 13:14	
Naphthalene	ug/L	ND	4.0	11/28/18 13:14	
p-Isopropyltoluene	ug/L	ND	1.0	11/28/18 13:14	
sec-Butylbenzene	ug/L	ND	1.0	11/28/18 13:14	
Styrene	ug/L	ND	1.0	11/28/18 13:14	
tert-Butylbenzene	ug/L	ND	1.0	11/28/18 13:14	
Tetrachloroethene	ug/L	ND	1.0	11/28/18 13:14	
Tetrahydrofuran	ug/L	ND	10.0	11/28/18 13:14	
Toluene	ug/L	ND	1.0	11/28/18 13:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/28/18 13:14	
trans-1,3-Dichloropropene	ug/L	ND	4.0	11/28/18 13:14	
Trichloroethene	ug/L	ND	0.40	11/28/18 13:14	
Trichlorofluoromethane	ug/L	ND	1.0	11/28/18 13:14	
Vinyl chloride	ug/L	ND	0.20	11/28/18 13:14	
Xylene (Total)	ug/L	ND	3.0	11/28/18 13:14	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	11/28/18 13:14	
4-Bromofluorobenzene (S)	%.	100	75-125	11/28/18 13:14	
Toluene-d8 (S)	%.	102	75-125	11/28/18 13:14	

LABORATORY CONTROL SAMPLE: 3133744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.6	113	75-125	
1,1,1-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	21.3	106	75-129	
1,1,2-Trichloroethane	ug/L	20	21.0	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.6	108	74-125	
1,1-Dichloroethane	ug/L	20	20.5	102	75-127	
1,1-Dichloroethene	ug/L	20	19.6	98	73-125	
1,1-Dichloropropene	ug/L	20	20.2	101	75-125	
1,2,3-Trichlorobenzene	ug/L	20	21.8	109	74-126	
1,2,3-Trichloropropane	ug/L	20	20.6	103	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.9	105	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

LABORATORY CONTROL SAMPLE: 3133744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.2	106	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.2	96	64-129	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	75-125	
1,2-Dichlorobenzene	ug/L	20	21.4	107	75-125	
1,2-Dichloroethane	ug/L	20	19.5	97	74-125	
1,2-Dichloropropane	ug/L	20	19.9	100	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.7	103	75-125	
1,3-Dichlorobenzene	ug/L	20	20.7	103	75-125	
1,3-Dichloropropane	ug/L	20	20.3	102	75-125	
1,4-Dichlorobenzene	ug/L	20	20.1	100	75-125	
2,2-Dichloropropane	ug/L	20	20.7	103	70-125	
2-Butanone (MEK)	ug/L	100	104	104	57-130	
2-Chlorotoluene	ug/L	20	20.3	102	75-125	
4-Chlorotoluene	ug/L	20	20.5	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	69-137	
Acetone	ug/L	100	100	100	32-150	
Allyl chloride	ug/L	20	19.6	98	64-135	
Benzene	ug/L	20	20.4	102	75-126	
Bromobenzene	ug/L	20	20.2	101	75-125	
Bromochloromethane	ug/L	20	21.0	105	75-126	
Bromodichloromethane	ug/L	20	21.2	106	75-125	
Bromoform	ug/L	20	20.8	104	67-125	
Bromomethane	ug/L	20	16.2	81	30-150	
Carbon tetrachloride	ug/L	20	21.0	105	75-125	
Chlorobenzene	ug/L	20	20.2	101	75-125	
Chloroethane	ug/L	20	16.9	85	64-142	
Chloroform	ug/L	20	20.2	101	75-125	
Chloromethane	ug/L	20	17.8	89	40-150	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.7	108	75-125	
Dibromochloromethane	ug/L	20	22.0	110	75-125	
Dibromomethane	ug/L	20	20.5	103	75-125	
Dichlorodifluoromethane	ug/L	20	19.5	98	61-132	
Dichlorofluoromethane	ug/L	20	20.9	105	75-129	N2
Diethyl ether (Ethyl ether)	ug/L	20	21.4	107	74-125	
Ethylbenzene	ug/L	20	20.3	102	75-125	
Hexachloro-1,3-butadiene	ug/L	20	22.0	110	75-125	
Isopropylbenzene (Cumene)	ug/L	20	21.1	105	75-125	
Methyl-tert-butyl ether	ug/L	20	21.2	106	73-129	
Methylene Chloride	ug/L	20	20.4	102	72-125	
n-Butylbenzene	ug/L	20	22.3	112	75-125	
n-Propylbenzene	ug/L	20	21.0	105	75-125	
Naphthalene	ug/L	20	21.6	108	65-126	
p-Isopropyltoluene	ug/L	20	21.3	107	75-125	
sec-Butylbenzene	ug/L	20	21.3	106	75-125	
Styrene	ug/L	20	21.3	107	75-125	
tert-Butylbenzene	ug/L	20	20.9	104	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

LABORATORY CONTROL SAMPLE: 3133744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.8	94	75-125	
Tetrahydrofuran	ug/L	200	203	101	30-150	
Toluene	ug/L	20	20.0	100	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	70-126	
trans-1,3-Dichloropropene	ug/L	20	24.2	121	75-125	
Trichloroethene	ug/L	20	20.1	100	75-125	
Trichlorofluoromethane	ug/L	20	21.7	108	71-131	
Vinyl chloride	ug/L	20	21.0	105	65-137	
Xylene (Total)	ug/L	60	61.4	102	75-125	
1,2-Dichloroethane-d4 (S)	%.			101	75-125	
4-Bromofluorobenzene (S)	%.			101	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3133745 3133746

Parameter	Units	10456499009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.5	23.8	112	119	69-130	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.9	23.5	109	118	72-133	7	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	21.1	99	106	60-137	6	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.7	20.4	99	102	70-128	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	23.7	24.9	119	125	64-147	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.7	22.1	103	110	64-136	7	30	
1,1-Dichloroethene	ug/L	ND	20	20	21.4	22.4	107	112	67-139	5	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.5	23.3	108	116	69-131	8	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.1	21.3	100	107	60-138	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.4	20.7	97	104	67-129	6	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	21.2	98	106	71-125	7	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	22.4	107	112	67-130	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.0	47.0	90	94	52-141	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.8	21.0	99	105	66-130	6	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.8	21.4	99	107	72-126	7	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.2	19.5	91	98	64-125	7	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.0	21.0	100	105	65-128	5	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.2	22.2	106	111	63-139	5	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	21.3	101	107	70-128	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.2	20.2	96	101	70-131	5	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	21.0	99	105	74-125	6	30	
2,2-Dichloropropane	ug/L	ND	20	20	22.2	23.3	111	116	58-137	5	30	
2-Butanone (MEK)	ug/L	ND	100	100	96.5	101	96	101	45-132	5	30	
2-Chlorotoluene	ug/L	ND	20	20	20.3	21.7	102	109	66-134	7	30	
4-Chlorotoluene	ug/L	ND	20	20	20.7	21.4	104	107	70-132	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	104	105	104	54-143	0	30	
Acetone	ug/L	ND	100	100	92.3	94.3	92	94	51-150	2	30	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3133745 3133746

Parameter	Units	10456499009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	20	20	20.5	22.0	102	110	52-150	7	30	
Benzene	ug/L	ND	20	20	20.6	22.2	103	111	62-140	7	30	
Bromobenzene	ug/L	ND	20	20	19.7	21.6	98	108	70-128	9	30	
Bromochloromethane	ug/L	ND	20	20	20.3	21.6	102	108	65-131	6	30	
Bromodichloromethane	ug/L	ND	20	20	20.8	22.1	104	110	74-127	6	30	
Bromoform	ug/L	ND	20	20	20.0	20.9	100	104	59-125	4	30	
Bromomethane	ug/L	ND	20	20	19.9	16.8	99	84	30-149	17	30	
Carbon tetrachloride	ug/L	ND	20	20	22.5	24.1	113	120	67-134	7	30	
Chlorobenzene	ug/L	ND	20	20	20.4	21.6	102	108	72-131	6	30	
Chloroethane	ug/L	ND	20	20	26.1	16.8	131	84	55-150	43	30	R1
Chloroform	ug/L	ND	20	20	19.5	20.7	98	103	67-125	6	30	
Chloromethane	ug/L	ND	20	20	17.0	16.7	85	84	43-148	2	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.4	21.0	97	105	62-132	8	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.9	22.2	105	111	63-129	6	30	
Dibromochloromethane	ug/L	ND	20	20	21.1	22.5	106	113	67-127	6	30	
Dibromomethane	ug/L	ND	20	20	19.5	21.1	98	105	68-132	8	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.8	20.9	104	105	59-144	1	30	
Dichlorofluoromethane	ug/L	ND	20	20	21.5	21.6	108	108	63-144	0	30	N2
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20.2	21.5	101	108	52-139	6	30	
Ethylbenzene	ug/L	ND	20	20	21.1	22.1	105	111	75-131	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.8	23.1	109	115	58-146	6	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.0	23.0	110	115	71-132	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	20.8	98	104	65-130	6	30	
Methylene Chloride	ug/L	ND	20	20	19.2	20.9	96	104	66-125	9	30	
n-Butylbenzene	ug/L	ND	20	20	22.9	24.1	114	120	57-141	5	30	
n-Propylbenzene	ug/L	ND	20	20	22.1	23.1	110	116	70-131	5	30	
Naphthalene	ug/L	ND	20	20	19.9	21.0	99	105	48-134	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.1	23.2	110	116	66-136	5	30	
sec-Butylbenzene	ug/L	ND	20	20	22.3	23.8	112	119	69-134	6	30	
Styrene	ug/L	ND	20	20	21.2	22.2	106	111	65-134	5	30	
tert-Butylbenzene	ug/L	ND	20	20	21.7	23.0	108	115	71-130	6	30	
Tetrachloroethene	ug/L	ND	20	20	21.0	22.1	105	111	69-135	5	30	
Tetrahydrofuran	ug/L	ND	200	200	193	204	96	102	48-150	5	30	
Toluene	ug/L	ND	20	20	20.5	21.7	102	109	68-132	6	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.4	21.6	102	108	61-134	5	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.7	24.0	113	120	66-125	6	30	
Trichloroethene	ug/L	ND	20	20	21.5	22.2	107	111	64-136	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	23.1	114	115	65-146	1	30	
Vinyl chloride	ug/L	ND	20	20	22.9	22.2	115	111	51-150	3	30	
Xylene (Total)	ug/L	ND	60	60	63.8	66.8	106	111	69-135	5	30	
1,2-Dichloroethane-d4 (S)	%.						102	101	75-125			
4-Bromofluorobenzene (S)	%.						100	100	75-125			
Toluene-d8 (S)	%.						101	99	75-125			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 51-0317.00 Adleman's
Pace Project No.: 10456270

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10456270001	**GP-1 (2-4)**	ASTM D2974	577302		
10456270002	**GP-1 (10-12)**	ASTM D2974	577302		
10456270003	**GP-2 (2-4)**	ASTM D2974	577302		
10456270004	**GP-2 (10-12)**	ASTM D2974	577302		
10456270005	**GP-3 (8-10)**	ASTM D2974	577302		
10456270006	**GP-3 (10-12)**	ASTM D2974	577302		
10456270007	**GP-4 (2-4)**	ASTM D2974	577302		
10456270008	**GP-4 (10-12)**	ASTM D2974	577302		
10456270009	**GP-5 (2-4)**	ASTM D2974	577302		
10456270010	**GP-5 (10-12)**	ASTM D2974	577302		
10456270011	**GP-6 (2-4)**	ASTM D2974	577302		
10456270012	**GP-6 (10-12)**	ASTM D2974	577302		
10456270013	**GP-7 (2-4)**	ASTM D2974	577302		
10456270014	**GP-7 (10-12)**	ASTM D2974	577302		
10456270015	**GP-8 (14-16)**	ASTM D2974	577302		
10456270016	**GP-8 (34-36)**	ASTM D2974	577302		
10456270017	**GP-9 (2-4)**	ASTM D2974	577302		
10456270018	**GP-9 (34-36)**	ASTM D2974	577302		
10456270001	**GP-1 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270002	**GP-1 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270003	**GP-2 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270004	**GP-2 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270005	**GP-3 (8-10)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270006	**GP-3 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270007	**GP-4 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270008	**GP-4 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270009	**GP-5 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270010	**GP-5 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270011	**GP-6 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270012	**GP-6 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270013	**GP-7 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270014	**GP-7 (10-12)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270015	**GP-8 (14-16)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270016	**GP-8 (34-36)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270017	**GP-9 (2-4)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270018	**GP-9 (34-36)**	EPA 5035/5030B	577346	EPA 8260B	577433
10456270019	**GP-8**	EPA 8260B	577657		
10456270020	**GP-9**	EPA 8260B	577657		
10456270021	**Trip Blank**	EPA 8260B	577657		

REPORT OF LABORATORY ANALYSIS

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME/CLIENT
51-0317.00	Allemans

SAMPLERS: (*Signature*) Matthew Bench

WO# : 10456270

10456270

SAMPLE NO.	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	Field Filtered: VOC	dry wt & hx								
1	11/16/18	9:25		X	GP-1 (2-4)	3	X	X								001
2	11/16/18	9:25		X	GP-1 (10-12)	3	X	X								002
3	11/16/18	10:05		X	GP-2 (2-4)	3	X	X								003
4	11/16/18	10:00		X	GP-2 (10-12)	3	X	X								004
5	11/16/18	10:20		X	GP-3 (8-10)	3	X	X								005
6	11/16/18	10:25		X	GP-3 (10-12)	3	X	X								006
7	11/16/18	10:45		X	GP-4 (2-4)	3	X	X								007
8	11/16/18	10:50		X	GP-4 (10-12)	3	X	X								008
9	11/16/18	11:00		X	GP-5 (2-4)	3	X	X								009
10	11/16/18	11:05		X	GP-5 (10-12)	3	X	X								010
11	11/16/18	11:30		X	GP-6 (2-4)	3	X	X								011
12	11/16/18	11:35		X	GP-6 (10-12)	3	X	X								012
13	11/16/18	11:50		X	GP-7 (2-4)	3	X	X								013
14	11/16/18	11:55		X	GP-7 (10-12)	3	X	X								014
15	11/16/18	12:35		X	GP-8 (14-16)	3	X	X								015
16	11/16/18	12:40		X	GP-8 (34-36)	3	X	X								016
17	11/16/18	14:00		X	GP-9 (2-4)	3	X	X								017
18	11/16/18	14:05		X	GP-9 (34-36)	3	X	X								018

Ayres Project Contact: Mitch Benach

Ayres Project Manager: Lori Rosemore

Invoice To: Ayres

RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)
Matthew Bench	11/19/18 11:00	[illegible] DATE 1135 11/26/18			

AYRES ASSOCIATES

3433 Oakwood Hills Parkway, Eau Claire, WI 54702
715.834.3161

5201 E. Terrace Drive, Suite 200, Madison, WI 53718
608.443.1200

N17 W24222 Riverwood Drive, Suite 310, Waukesha, WI 53188
262.523.4488

Shipped on ice: X yes ____ no

Received on ice: ____ yes ____ no

Temp. if **not** received on ice: ____

COMMENTS:

T=0.2

CHAIN OF CUSTODY RECORD

Page 2/3

PROJECT NO.	PROJECT NAME/CLIENT	NO. OF CONTAINERS	Field Filtered: N
51-0317.00	Adleman's		VOC

SAMPLERS: (*Signature*) [signature]

SAMPLE NO.	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION/ DESCRIPTION	NO. OF CON-TAINERS	VOC									REMARKS
19	11/16/18	13:15		X	GP-8	3	X									019
20	11/16/18	14:10		X	GP-9	3	X									020
					trip blank	2	X									

Ayres Project Contact: Mitch Banach

Ayres Project Manager: Lori Rosemore

Invoice To: Ayres

RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE / TIME	RECEIVED BY: (*Signature*)
[signature]	11/15/18 11:00	[signature] PACE 1135 11/20/18			

AYRES ASSOCIATES

3433 Oakwood Hills Parkway, Eau Claire, WI 54702
715.834.3161

5201 E. Terrace Drive, Suite 200, Madison, WI 53718
608.443.1200

N17 W24222 Riverwood Drive, Suite 310, Waukesha, WI 53188
262.523.4488

Shipped on ice: X yes ___ no

Received on ice: ___ yes ___ no

Temp. if **not** received on ice: ________

COMMENTS:

T=0.2

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 31Oct2018 Page 1 of 2
	Document No.: F-MN-L-213-rev.24	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt Client Name: Adleman's Project #: **WO#: 10456270**

PM: BM2 **Due Date: 11/29/18**

CLIENT: AYRES ASSOC.

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7475 9395 9299

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

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

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 0.2 Cooler Temp Corrected (°C): 0.2 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: AS 11/20/18

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used?	☒ Yes	☐ No		9.
-Pace Containers Used?	☐ Yes	☒ No		
Containers Intact?	☒ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: SL/WT	☒ Yes	☐ No		12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☒ Yes	☐ No	☐ N/A	14. See Exceptions
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 183703				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BM Date: 11/21/18

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

Labeled by: AS

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 06Nov2017 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.00**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
GP-8 (water)	1	1	1	3
GP-9 (water)	2	1	0	3
Trip blank	0	2	0	2