SITZMANN
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Christopher G. Sitzmann*
Andrew C. Micheletti
Sara K. Micheletti
* also licensed in Minnesota

September 26, 2017 Sent Via First Class U.S. Mail & Email

DNR – Southeast Region
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee, WI 53212

Re: Quality Cleaners, 1228 11th Avenue, Grafton, WI 53024
BRRTS#: 02-46-560212, FID#:246166470

Dear DNR,

Enclosed herewith please find the following documents:

1. CD with all documents listed below.
2. $700 Check.
3. Form 4400-237 Clarification Modification Request, together with the following supporting documentation:
    a) Quit Claim Deed dated January 17, 1994 to Gerald A. Kuehl and Barbara A. Kuehl establishing ownership rights of the subject property.
    b) HT110 terminating Barbara A. Kuehl's interest.
    c) Death Certificate for Gerald A. Kuehl.
    d) Domiciliary Letters issued to Susan J. Kuehl ("**Susan**") as Personal Representative of Gerald Kuehl, who died on April 10, 2015.
    e) Disclaimer of interest in property by Susan J. Kuehl.
    f) Assessment Activity Information by Moraine Environmental, Inc., Robert E. Lee & Associates, Inc. and Radon Abatement Inc.
    g) Vapor Extraction SSD System Evaluation on June 8, 2016.

The Site is the location of a small commercial building (approximately 62 x 50) occupied by two (2) beauty shops (1226A and 1226B 11th Avenue, Grafton, WI 53024), who each orally lease a portion of the building. The third portion of the building (1228 11th Avenue, Grafton, WI 53024) is currently vacant, and was formerly occupied by Quality Cleaners for use as a dry cleaner. Quality Cleaners operated at the Site from the circa the late 1980s until the Fall of 2012 when dry cleaning operations ceased. The Site building is believed to have been constructed in the 1950s and was first occupied by the Village of Grafton Post Office.

During subsurface assessment activities completed in February and March 2013 by Moraine Environmental, Inc., chlorinated volatile organic compounds (CVOCs) used in dry cleaning processes were detected in soil and groundwater at the Site. A total of twelve soil borings (B-1 through B-10; and MW-1 and MW-2) were completed to evaluate soil quality and Borings MW-1 and MW-2 were completed as groundwater Monitoring Wells MW-1 and MW-2, respectively, to evaluate groundwater quality at the Site. See attached Robert E. Lee & Associates, Inc. Work Plan submitted to John Feeney by letter dated August 2, 2016.

Susan has not caused any discharge of any hazardous substance on the property. Susan's only involvement with the Property is as Personal Representative of the Estate of Gerald Kuehl and she has only continued to investigate the contamination caused by the dry cleaner operation of her father, Gerald Kuehl, who passed away on April 10, 2015. See John Feeney's letter to Christopher G. Sitzmann dated December 28, 2015.

Copies of the Assessment Activities conducted by Moraine Environmental and Robert E. Lee & Associates, Inc. are enclosed, which includes a Transaction Screen Assessment, Soil Sampling, Groundwater Sampling, Vapor Intrusion Sampling and Air Sampling results.

The probated Estate of Gerald Kuehl is ongoing in Ozaukee County and it is my understanding all heirs intend to disclaim their interest in the property because the Estate has insufficient funds to conduct the Investigation, let alone remediation. See enclosed Christopher G. Sitzmann's December 20, 2016 letter to John Feeney.

Susan is requesting Clarification that she is not a responsible party, including as Personal Representative of the Estate of Gerald Kuehl pursuant to Wis. Stat. § 292.21(2).

Please contact me if you have any questions. Thank you for your assistance. I look forward to hearing from you.

Very truly yours,

Christopher G. Sitzmann
CGS/lb

Enclosures

cc: Ms. Susan Kuehl (Sent Via Email

Kuehl Estate\DNR.ltr

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

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

Form 4400-237 (R 9/15)

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

Definitions

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

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

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

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

Select the Correct Form

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

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

Do <u>not</u> 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
Kuehl	Susan	J	

Mailing Address	City	State	ZIP Code
121 Ashland Court, Sheboygan Falls, WI 53085	Sheboygan Falls	WI	53085

Phone # (include area code)	Fax # (include area code)	Email
920-980-2178		sjkuehl@sbcglobal.net

The requester listed above: (select all that apply)

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

  Applicant is the Personal Representative of the Estate of Gerald Kuehl, who is the owner of the property.

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

☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name
Sitzmann	Christopher	G	Sitzmann Law Firm Ltd.

Mailing Address	City	State	ZIP Code
231 W. Franklin Street	Appleton	WI	54911

Phone # (include area code)	Fax # (include area code)	Email
920-733-3963	920-733-8873	csitzmann@sitzmannlaw.com

Section 2. Property Information

Property Name	FID No. (if known)
Quality Cleaners	246166470

BRRTS No. (if known)	Parcel Identification Number
02-46-560212	10-060-10-09-001

Street Address	City	State	ZIP Code
1226-1228 11th Avenue	Grafton	WI	53024

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Ozaukee	○ City ○ Town ⊗ Village of	⊗ Single tax parcel ○ Multiple tax parcels	14.15

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: ASAP

   Reason:

   WDNR is hiring Contractor to perform investigation of vapor migration

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

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

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

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

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

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

- ☐ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of $350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- ☐ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**
- ☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of $1050.**
- ☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**
- ☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**
- ☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**
- ☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**
- ☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**
- ☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

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

- ☐ Schedule a Technical Assistance Meeting - **Include a fee of $700.**
- ☐ Hazardous Waste Determination - **Include a fee of $700.**
- ☐ Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- ☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**
  - ☐ Include a fee of $300 for sites with residual soil contamination; and
  - ☐ Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

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

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

Section 4. Request for Liability Clarification

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

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

❖ **Include a fee of $700.**

Provide the following documentation:

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

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

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

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

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

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

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

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

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

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

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

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

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

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

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

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

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

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

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

☐ Perceived environmental contamination - [649];

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

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

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

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

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

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

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

(5) summary of current uses of the Property;

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

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

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

Section 4. Request for Liability Clarification (cont.)

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

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

(1) a copy of the proposed lease;

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

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

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

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

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

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

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

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

- ❖ **Include a fee of $700.**

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

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

- ❖ **Include a fee of $700.**

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

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

Section 5. Request for a Specialized Agreement

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

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

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

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

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

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

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

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

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

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

Section 6. Other Information Submitted

Identify all materials that are included with this request.

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

☐ Phase I Environmental Site Assessment Report - Date: _____

☐ 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: Soil tests, groundwater sampling, subslab vapor intrusion testing, indoor air testing and outdoor air testing and Vapor Extraction SSD System Evaluation

Date of Collection: See attached

☐ 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: Susan J. Kuehl
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 Christopher G. Sitzmann — Date Signed September 26, 2017

Attorney for Susan J. Kuehl — Title

920-733-3963 — 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.

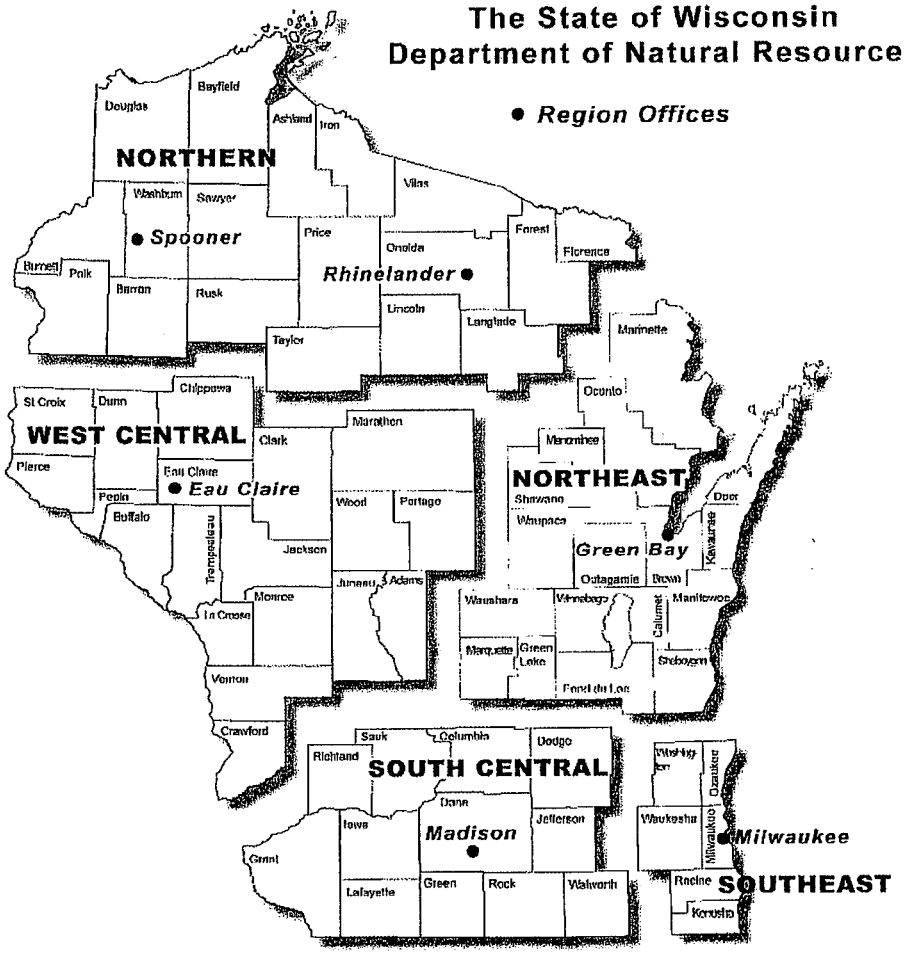
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

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		

ATTACHMENT TO PAGE 6, SECTION 6. – OTHER INFORMATION SUBMITTED

Dates of Collection:

1. Indoor air testing on January 16, 2013
2. Soil testing on February 21, 2013
3. Soil testing on March 18, 2013
4. Groundwater testing on March 25, 2013
5. Subslab vapor intrusion testing on January 16, 2014
6. Indoor air testing on April 8, 2014 – off site
7. Outdoor air testing on April 8, 2014 – off site
8. Subslab vapor intrusion testing on April 9, 2014
9. Indoor air testing on October 30, 2015
10. Outdoor air testing on October 30, 2015
11. Vapor Extraction SSD System Evaluation on June 8, 2016

VOL 871 PAGE 942 33570

511360

QUITCLAIM DEED

RECORDED

1994 JAN 20 PM 3:00

REGISTER OF DEEDS
OZAUKEE COUNTY, WI

Reserved for Recording Data

FEE
7725(2)
EXE APP

Return to: Paul V. Malloy
Houseman, Foind, Gallo & Malloy
1214 - 13th Avenue
Grafton, WI 53024-0104

$10

Tax Parcel No. 10-060-10-09-001 /K

VILLAGE OF GRAFTON, a muncipal corporation, ("Grantor," whether one or more) quitclaims to **GERALD A. KUEHL AND BARBARA A. KUEHL, husband and wife,** all of Grantor's interest in the following described real estate in Ozaukee County, State of Wisconsin:

The South Twenty-eight (28) feet of Lot Ten (10) and the North Twenty-two (22) feet of Lot Nine (9) all in Block Ten (10) in GIFFORD'S ADDITION to the Village of Grafton, Ozaukee County, Wisconsin, TOGETHER WITH a right of way for ingress and egress over the North 20 feet of the South 44 feet of Lot 9, Block 10 in Gifford's Addition to the Village of Grafton, and the vacated 8 foot alley adjoining the above North 20 feet of the South 44 feet of said Lot 9.

This is not homestead property.

Dated: January 17, 1994.

_____ (Seal)

*_____

_____ (Seal)

*_____

Rodney L. Schroeder (Seal)

*Rodney L. Schroeder, Village President

Teri Dylak (Seal)

*Teri Dylak, Village Clerk

AUTHENTICATION

Signatures of Rodney L. Schroeder and Teri Dylak authenticated on _____, 1994.

_____

*_____

Title: Member, State Bar of Wisconsin, or _____, authorized by Wis. Stat. §706.06.

This instrument was Drafted by:
PAUL V. MALLOY
Attorney at Law

* Type or print name of person signing

ACKNOWLEDGEMENT

STATE OF WISCONSIN)
: s.s.
COUNTY OF OZAUKEE)

Personally came before me, on Jan. 17th, 1994, the above-named Rodney L. Schroeder and Teri Dylak, known to me to be the persons who executed the foregoing and who acknowledged the same.

_____

* Ozaukee County

Notary Public, State of Wisconsin
My commission (is permanent/expires: 11/10/96).

APPLICATION FOR THE TERMINATION OF DECEDENT'S INTEREST AND CONFIRMATION OF APPLICANT'S INTEREST IN PROPERTY

8 1 2 4 3 4 9
Tx:4095654

1015969
RONALD A. VOIGT
OZAUKEE COUNTY
REGISTER OF DEEDS
RECORDED ON
04/13/2015 10:46 AM
REC FEE: 30.00
PAGES: 8
EXEMPT #:

DECEDENT'S NAME	DATE OF DEATH		
Barbara Kuehl	01-03-14		
ADDRESS OF DECEDENT AT DATE OF DEATH	CITY	ST	ZIP
5350 Cascade Dr.	Trenton	WI	53095

PRESENTATION OF DEATH CERTIFICATE
I certify that I have viewed a certified copy of the decedent's death certificate.

REGISTER OF DEEDS SIGNATURE — DATE: 4-2-15

Recording area

THE INTEREST OF THE DECEDENT IN THE PROPERTY NOTED HEREIN IS HEREBY TERMINATED/CONFIRMED UNDER THE FOLLOWING STATUTE:
(please check appropriate statute)

☐ s. 867.045 which pertains to real property in which the decedent was a joint tenant, had a vendor's or mortgagee's interest, or had a life estate. (You must provide a copy of the document establishing interest in the real property.)

☒ s. 867.046 which pertains to property of a decedent specified in a marital property agreement; survivorship marital property; or a third party confirmation; or a nonprobate transfer on death as described in s.705.10(1).
(You must provide a copy of the document establishing interest in property.)

Name and return address:

Attorney Brian Borkowicz
1797 Barton Ave.
West Bend, WI 53090
$30

10-060-10-09-001
Parcel Identification Number

Presentation of recorded document establishing interest in real estate.

DOCUMENT #	VOLUME/REEL	PAGE/IMAGE	RECORDS/DEEDS
511360	871	942	

SEND TAX STATEMENT TO:
Gerald Kuehl
5350 Cascade Dr.
West Bend, WI 53095

Description of the real estate. ☐ See Attached

The South Twenty-eight (28) feet of Lot Ten (10) and the North Twenty-two (22) feet of Lot Nine (9) all in Block Ten (10)In GIFFORD'S ADDITION to the Village of Grafton, Ozaukee County, Wisconsin, TOGETHER WITH a right of way for ingress and egress over the North 20 feet of the South 44 feet of Lot 9, Block 10 in Gifford's Addition to the Village of Grafton, and the vacated 8 foot alley adjoining the above North 20 feet of the South 44 feet of said Lot 9.

Description of personal property (If any) being transferred.
You may list savings accounts, checking accounts and securities on attached pages. Indicate person(s) receiving property.

DECLARATION: I(We) declare that this document is, to the best of my(our) knowledge and belief, true, correct and complete and is in conformity with the provisions and limitations of the Wisconsin Statutes.

Name and Address (List all remaindermen/ beneficiaries. If more space is needed, attach pages.)	Applicant's Interest in Property (ie: spouse, remainderman, beneficiary)	Applicant Signature (Notarized) (Print or type name below signature)	Date
Gerald Kuehl 5350 Cascade Dr. West Bend, WI 53095	Spouse	Susan J. Kuehl POA Gerald Kuehl	3-25-2015

This document was drafted by: *(print or type name below)*

STATE OF WISCONSIN) County of Sheboygan
Subscribed and sworn to before me on: 03-25-2015
by the above name(s) person(s): Gerald Kuehl

Signature of Notary or other person authorized to administer an oath (as per s 706.06, 706.07): Susan D. Messner
Print or type name: Susan D. Messner
Title:
Date Commission Expires: 08-09-2015

NOTE: SEE DIRECTIONS.
Wisconsin Register of Deeds Association Form RT-110
Website Version 05/2010

THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

8

WISCONSIN CERTIFICATE OF VITAL RECORD

STATE OF WISCONSIN
DEPARTMENT OF HEALTH SERVICES
ORIGINAL CERTIFICATE OF DEATH
FACT OF DEATH

STATE FILE DATE: APRIL 16, 2015
STATE FILE NUMBER: 2015015336

1. DECEDENT'S NAME First	Middle	Last	2. SOCIAL SECURITY NUMBER	3. DATE PRONOUNCED DEAD
GERALD	ARTHUR	KUEHL	398-34-1814	APRIL 10, 2015

4. TIME PRONOUNCED DEAD (24hr)	5. AGE	6. DATE OF BIRTH	7. SEX	8. CITY, VILLAGE, OR TOWNSHIP OF DEATH	9. COUNTY OF DEATH
15:33	75 YEARS	JANUARY 21, 1940	MALE	WEST BEND (CITY)	WASHINGTON

10. PLACE OF DEATH	11. FACILITY NAME AND ADDRESS OF DEATH
DECEDENT'S RESIDENCE - HOSPICE CARE	5350 CASCADE DRIVE (HEARTLAND HHC & HOSPICE)

12. RESIDENCE ADDRESS	13. RESIDENCE CITY, VILLAGE, OR TOWNSHIP	14. RESIDENCE COUNTY	15. RESIDENCE STATE
5350 CASCADE DRIVE	WEST BEND (CITY)	WASHINGTON	WISCONSIN

16. MARITAL STATUS	17. WI DOMESTIC PARTNERSHIP	18. SURVIVING SPOUSE'S BIRTH NAME	19. STATE OF BIRTH	20. DECEDENT'S BIRTH LAST NAME
WIDOWED	NO		WISCONSIN	KUEHL

21. FATHER'S BIRTH NAME	22. MOTHER'S BIRTH NAME
HAROLD OTTO KUEHL	AGNES ANN BROWN

23. INFORMANT'S NAME	24. INFORMANT'S MAILING ADDRESS
SUSAN JEAN KUEHL	121 ASHLAND COURT, SHEBOYGAN FALLS, WI 53085

25. NAME AND ADDRESS OF FUNERAL FACILITY	26. FUNERAL DIRECTOR'S NAME	27. DATE SIGNED
PHILLIP FUNERAL HOMES INC, 1420 PARADISE DRIVE, WEST BEND, WI 53095	SENA-ANDERSON, DENISE	APRIL 16, 2015

28. MANNER OF DEATH	29. TYPE OF MEDICAL CERTIFIER	30. MEDICAL CERTIFIER'S NAME AND TITLE	31. DATE SIGNED
NATURAL	PHYSICIAN	JOHN BURFEIND, MD	APRIL 14, 2015

32. DATE OF DEATH	33. TIME OF DEATH (24hr)	34. MEDICAL CERTIFIER'S MAILING ADDRESS
APRIL 10, 2015	15:33	3200 VALLEY ROAD, WEST BEND, WI 53095

EXTENDED FACT OF DEATH

35. USUAL OCCUPATION	36. KIND OF BUSINESS/INDUSTRY	37. EVER IN US ARMED FORCES	38. DECEDENT TRIBAL MEMBER
SUPERVISOR	MANUFACTURING	YES	NO TRIBE NAME(S):

39. METHOD OF DISPOSITION	40. PLACE AND LOCATION OF DISPOSITION
CREMATION	PARADISE CREMATION SERVICES, WEST BEND, WISCONSIN

41. PART I. The conditions listed are the diseases, injuries, or complicatcns that caused death. Conditions leading to the immediate cause are listed sequentially and the underlying cause is listed last.

		Interval Between Onset and Death
Immediate Cause: (a)	SMALL CELL LUNG CANCER	19 MOS
Due to or as a consequence of: (b)		
Due to or as a consequence of: (c)		
Due to or as a consequence of: (d)		

41. PART II. OTHER SIGNIFICANT CONDITIONS contributing to death but not resulting in the underlying cause given in Part I.

42. AUTOPSY PERFORMED	43. DATE OF INJURY	44. TIME OF INJURY (24hr)	45. INJURY AT WORK	46. PLACE OF INJURY
NO				

47. LOCATION OF INJURY	48. COUNTY OF INJURY

49. IF INJURY STATED ANYWHERE IN CAUSE OF DEATH (Part I or Part II), DESCRIBE HOW IT OCCURRED.

1427332

NO AMENDMENTS PRESENT

I certify that this document contains a true and correct reproduction of facts on file with the Wisconsin Vital Records Office.

LOCAL REGISTRAR WISCONSIN

Sharon A. Martin
SHARON A. MARTIN
WASHINGTON COUNTY REGISTER OF DEEDS

15143693 Date Issued: APRIL 17, 2015

STATE OF WISCONSIN

STATE OF WISCONSIN, CIRCUIT COURT, WASHINGTON COUNTY

For Official Use

FILED

MAY 28 2015

CLERK OF CIRCUIT COURT
WASHINGTON CO., WI 53095

IN THE MATTER OF THE ESTATE OF

GERALD A. KUEHL

☐ Amended

Domiciliary Letters
☒ Informal Administration
☐ Formal Administration

Case No. 15PR87

To: Susan Kuehl
121 Ashland Ct
Sheboygan Falls, WI 53085

The decedent, with date of birth January 21, 1940 and date of death April 10, 2015, was domiciled in Washington County, State of Wisconsin.

You are granted domiciliary letters with general powers and duties of a personal representative.

You are authorized to administer the estate as required by law.

Other:

Seal: CIRCUIT COURT WASHINGTON CO. WISCONSIN

LETTERS ISSUED BY:

Patricia L. Schaller

☐ Circuit Court Judge ☐ Circuit Court Commissioner ☒ Probate Registrar Deputy

Patricia L. Schaller
Name Printed or Typed

May 28, 2015
Date

STATE OF WISCONSIN } SS
COUNTY OF WASHINGTON

I certify that this is a true and correct copy of a document in the possession of the Register in Probate for Washington County and Letters are in full force and effect as of this date.
THIS CERTIFICATE IS NOT VALID UNLESS IT INCLUDES THE COURT SEAL.

05-29-2015
Date

Register in Probate

Form completed by: (Name)	
Brian Borkowicz	
Address 1797 Barton Ave. West Bend, WI 53090	
Telephone Number 262-335-2605	Bar Number (If any) 1056646

DISCLAIMER OF INTEREST IN PROPERTY

Description of Property:

1226-1228 11th Avenue
Grafton, WI 53024

Legal Description:

The South Twenty-eight (28) feet of Lot Ten (10) and the North Twenty-two (22) feet of Lot Nine (9) all in Block Ten (10) in GIFFORD'S ADDITION to the Village of Grafton, Ozaukee County, Wisconsin, TOGETHER WITH a right of way for ingress and egress over the North 20 feet of the South 44 feet of Lot 9, Block 10 in Gifford's Addition to the Village of Grafton, and the vacated 8 foot alley adjoining the above North 20 feet of the South 44 feet of said Lot 9.

Declaration of Disclaimer and Extent of Disclaimer:

I understand that Gerald Kuehl owned the property described above and that I am an heir, beneficiary, or other interested person who may be entitled to inherit the property. I hereby declare that I am disclaiming any and all interests in the above property, whether present or future and regardless of the source of that interest. My disclaimer of this property is total, permanent, and irrevocable. I wish to have no rights or responsibilities related to this property and I wish for the property to pass as though I predeceased Gerald Kuehl.

Dated this 31 day of August, 2017.

Susan J. Kuehl
Signature

Susan J Kuehl
Name (Printed or Typed)

This document must be delivered to Susan Kuehl, the Personal Representative of the Estate of Gerald Kuehl, in order to be effective. The Personal Representative must file a copy of this disclaimer with the Washington County Register in Probate.

Drafted by:

Brian Borkowicz
Law Office of John A. Best
1797 Barton Ave.
West Bend, WI 53090
(262) 335-2605

SITZMANN
LAW FIRM LTD

231 W. Franklin Street · Appleton, WI 54911
TELEPHONE: 920-733-3963 · FAX: 920-733-8873
www.sitzmannlaw.com

Christopher G. Sitzmann*
Andrew C. Micheletti
Sara K. Micheletti
* also licensed in Minnesota

December 20, 2016

Sent Via Email: johnm.feeney@wisconsin.gov

Mr. John Feeney
Department of Natural Resources
Plymouth Service Center
1155 N. Pilgrim Road
Plymouth, WI 53073

Re: Quality Cleaners, 1226 11th Avenue, Grafton, WI 53024
BRRTS#: 02-46-560212, FID#:246166470 ("**Grafton Site**")

Dear Mr. Feeney:

I am writing to update you on the status of the above referenced matter. As you know, a Responsible Party Letter was sent by the WDNR on March 18, 2013 to Gerald Kuehl. The site was found to be not eligible under DERF on April 26, 2013.

Prior to his death on April 10, 2015, Mr. Kuehl paid the following in connection with the Grafton Site:

- Moraine Environmental: $13,823.40
- Robert E. Lee & Associates, Inc. ("**REL**"): $12,935.36
- Radon Abatement: $ 4,345.00

After Gerald Kuehl's death, the Estate continued to advance the site investigation at a reasonable rate; including vapor intrusion analysis and assessment of neighboring buildings, additional soil and groundwater sampling, and Reports by REL, totaling $16,478.97. Attorneys Fees to Sitzmann Law Firm Ltd. total $6,632.50.

I understand per your November 17, 2016 email to Nicole LaPlant, "WDNR Peer Review thought REL's groundwater investigation plan looked good." The Estate of Gerald Kuehl received a Proposal dated December 5, 2016 from REL for additional groundwater site investigation, with a cost estimate of $40,000.00, excluding disposal costs. The disposal costs could exceed $10,000.00 if the materials are considered hazardous.

After the site investigation is complete, REL advised remediation costs may easily exceed $40,000.00. The exact number is problematic.

The Estate Checking Account has approximately $45,000.00 at this time and there are no other assets. The monthly rents the Estate receives total $875.00 and is offset by Real Estate Taxes, Insurance, utility and maintenance costs on the Grafton Site. The Estate was not able to lease the space that was the former dry cleaner operation, as they had hoped.

Therefore, the Estate does not have the financial capacity to sign and pay for the work under the REL Proposal. The Estate will have additional Attorneys Fees from the Probate Attorneys, as well as myself and other expenses unrelated to the site investigation.

The heirs of the Estate are unable to contribute additional funds to fund the investigation and remediation and therefore will **Disclaim** any interest in the Former Quality Cleaner Property at 118 11th Avenue, Grafton, WI. The Personal Representative, Susan Kuehl, has at all times acted in good faith to investigate and remediate the Grafton Site. Unfortunately, the costs of investigation exceed the Estates financial resources. Therefore, it is not possible to get clarity on the cost to remediate. The property's Real Estate Tax assessed value is $158,200.00 and it is likely the cost to investigate and remediate the Grafton Site will exceed Tax Assessed value

I would appreciate your reviewing this matter and contacting me to discuss a possible Liability Clarification Letter for Susan Kuehl as a follow up to your December 28, 2015 letter and the DNR's position to restore the environment. Thank you.

Very truly yours;

Christopher G. Sitzmann
CGS/lb

cc: Susan Kuehl (Sent Via Email)
Nicole LaPlant (Sent Via Email)

Kuehl Estate\Feeney.ltr.3

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Plymouth Service Center
1155 N Pilgrim Road
Plymouth WI 53073

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

December 28, 2015

Christopher G. Sitzmann
Sitzmann Law Firm Ltd.
231 W. Franklin Street
Appleton, WI 54911

Subject: Indoor Air Testing
Quality Cleaners, 1226 11th Avenue, Grafton, WI 53024
BRRTS#: 02-46-560212, FID#246166470

Dear Mr. Sitzman:

On December 4, 2015, the Wisconsin Department of Natural Resources (DNR) received indoor air testing results submitted by your consultant for the property identified above. The testing was requested by the DNR to confirm the effectiveness of the operating vapor mitigation system, which was installed at the property in response to the sub-slab vapor testing completed in January of 2014. The sub-slab vapor data indicated the necessity for a mitigation system due to vapor migration from soils and/or groundwater contaminated with chlorinated solvents beneath the building, as a result of former dry cleaning operations at the property.

Results of the November 2015 indoor air testing indicate that the indoor air meets applicable standards. Additionally, your consultant proposed inspection of the mitigation system twice per year in response to a request from the DNR for a maintenance plan. The DNR concurs with this proposal.

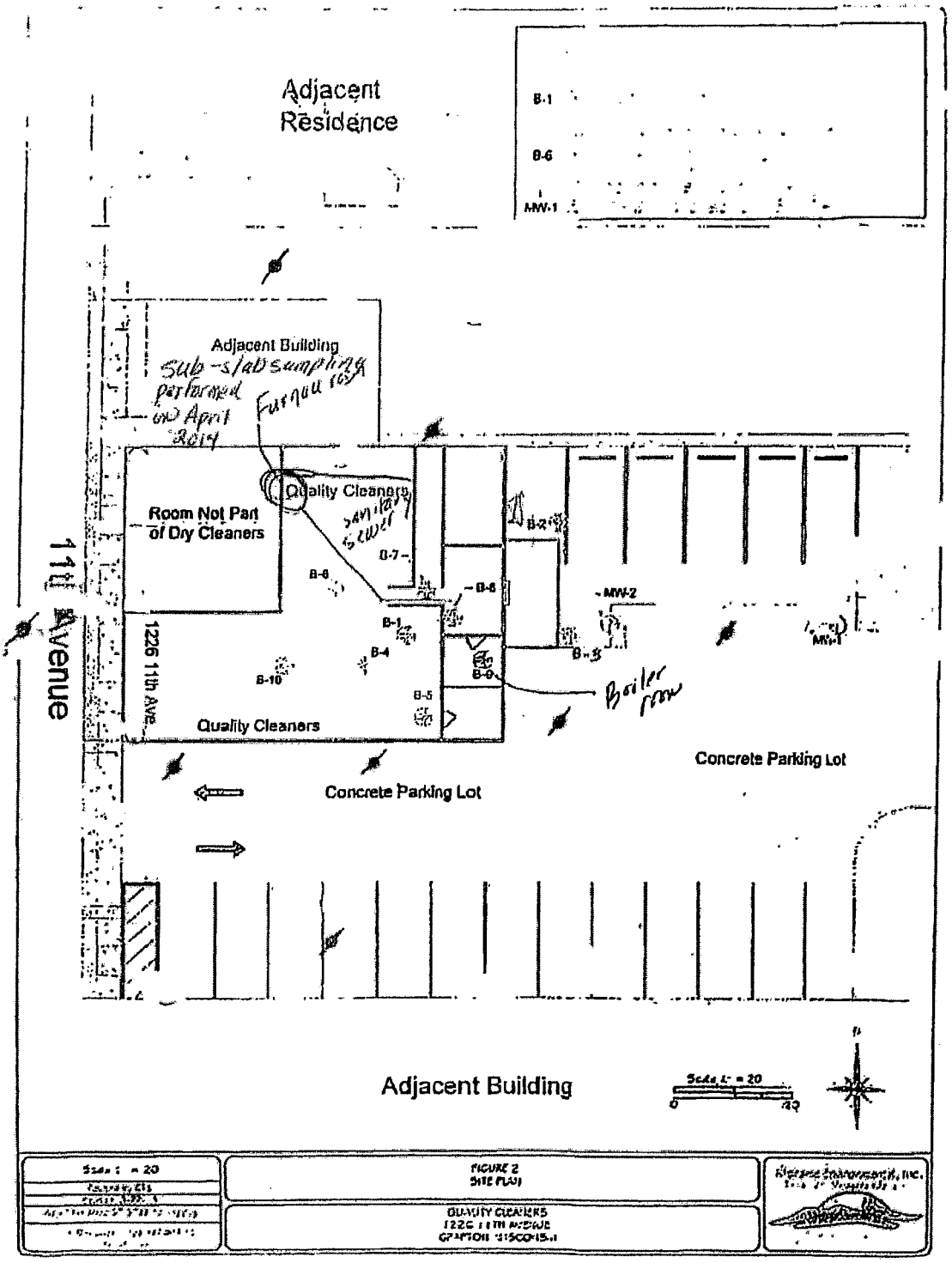
The DNR understands that the estate is currently in the midst of probate activities, however it appears that progress is being made despite this situation. The DNR is exercising its enforcement discretion at this time, and will continue to do so, as long as progress occurs at a reasonable rate. Site progress includes the advancement on completion of the site investigation, as well as a vapor assessment of neighboring buildings, if needed.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please call me at (920) 893-8523 or by email at johnm.feeney@wisconsin.gov.

Sincerely,

John Feeney, P.G.
Project Manager – Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources

cc: Nicole LaPlant, Robert E. Lee Associates, Inc.
SER File



= proposed soil boring location by REL

RADON ABATEMENT, INC.

Corporate Office 12221 West Rockne Avenue Hales Corners WI 53130
414-303-4038 radabt1@wi.rr.com

VAPOR EXTRACTION SSD SYSTEM EVALUATION

Date: 060816

Client: Susan Kuehl
Representative for Gerald Kuehl Estate
121 Ashland Court
Sheboygan Falls, WI 53085
1-920-550-2165
sjkuehl@sbcglobal.net

Radon Abatement
Remediation Location: Ozaukee County
Commercial Building
1228 11th Avenue
Grafton, WI 53024
BEERS 02-46-560212

Representative: Christopher G. Sitzmann, Sitzmann Law Firm Ltd.; 231 W. Franklin Street Appleton, WI 54911; 920-733-3963 csitzman@sitzmannlaw.com

Robert E. Lee representative: Nicole LaPlant; 920-662-9641; 1250 Centennial Centre Blvd., Hobart, WI 54155 nlaplant@releeinc.com

DNR Reviewer and advisor: John Feeney, Wisconsin PG #750; Plymouth Service Center; 1155 N. Pilgrim Road, Plymouth, WI, 53073 920-893-8523 johnm.feeney@wisconsin.gov

Contact for access of the building: North unit Hair Vision; Bonnie at 262-483-2708

EVALUATION conducted by Dr. Thomas Heine, president of Radon Abatement Incorporated
National certification for Mitigation 101879MT and Measurement 101878RT

AARST-NRPP RADON PROFESSIONALS SAVING LIVES

The active SSD vapor extraction system (ASSDVES) that was evaluated was applied to the captioned building by Radon Abatement Incorporated.

1. **Structural integrity of the captioned building and the applied active sub-slab depressurization extraction system.**
   The building shows signs of foundation failure or a disposition that would affect the systems efficiency or safety. The building was examined internally and externally. The ASSDVES was found to be in good condition and functioning. All component parts appeared to be in good working condition.

2. **Proper sealing**
   The building was examined for foundation breaches and unsealed penetrations. The grounding rod for the building's electrical system appeared to have been replaced. The pre-drilled hole in the concrete that was utilized for the ground rod installation and electrical application was open to the sub slab. It was sealed to insure full efficiency of the ASSDVES.

3. **Mechanical Analysis of the SSD Vapor Pump/Fan**
   The remediation pump/fan was in good condition. It was removed from its inline application on the exterior upper south wall and cleaned. All of the functional elements were in good working condition. The electrical components showed no signs of environmental damage or tampering. The pump/fan was in good condition with no signs of early failure.

4. **System assessment for efficiency with communication testing**
   Nine 3/8th inch holes were drilled to the sub-slab throughout the foundation slab of the building. They were letter designated for reference. All of the nine diagnostic holes were vacuumed clean and seal-covered for individual assessments during the communication testing process.
   With the ASSDVES functioning, each of the diagnostic ports was measured for depressurization with an INFILTEC digital micro manometer, model DM1 which is annually examined and maintained for efficiency. Measurements US 0.000 inches of water column. The findings are listed below and the drawing of the building that is attached and made part of this report and designated as Exhibit "A" defines the locations of the diagnostic ports. A manometer was applied to the main drop. The micromanometer reading at the drop was 1.068.

A. 0.086	**F. 0.841**
B. 0.081	**G. 0.023**
C. 0.909	**H. 0.003**
D. 0.018	**I. 0.004**
E. 0.009	

5. **Overview and Recommendations**

   The system appears to be functioning efficiently and safely. It meets all the recent protocol and standards set by the United States Environmental Protection Agency (USEPA) and the American Association of Radon Scientists and Technologists National Radon Proficiency Program (AARST-NRPP). The building is safe for occupancy from sub slab vapors, gases and fumes.

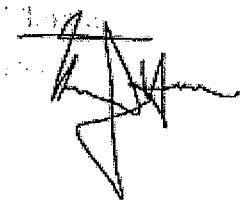
   Any damage or changes made to the said building need to be reported to Radon Abatement Incorporated immediately. This includes damage, malfunction or failure of the ASSDVES.

Further evaluations will be conducted bi-annually under contract with a generated report sent to Susan Kuehl for review and distribution to all parties coupled to this activity

Additional explanations, revisions or clarifications, will be generated upon request on the conditions of contract.

Thomas J. Heine
President
Radon Abatement Incorporated

Signature:



060816

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Monday, September 11, 2017 1:39 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Laura Buckner (laura@sitzmannlaw.com)
Subject: RE: estate of Gerald Kuehl
Attachments: TSA report_with initial Phase II borings.pdf; initial SI report.pdf

Hi Chris,

This email is one of 4 that will follow with the information we have in our files. This email has the Transaction Screen/Phase II, and Subsurface SI Report completed by Moraine Environmental. This information was given to us by the Kuehls' when we were first contacted.

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlaplant@releeinc.com

From: Christopher G. Sitzmann [mailto:csitzmann@sitzmannlaw.com]
Sent: Friday, September 08, 2017 12:34 PM
To: Nicole L. LaPlant
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; 'Laura Buckner'
Subject: RE: estate of Gerald Kuehl

Nicole
Thank you so much
Have a great weekend

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street |Appleton, WI 54911
office: (920) 733-3963 |fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, September 08, 2017 12:30 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; Laura Buckner
Subject: RE: estate of Gerald Kuehl

MS

Moraine Environmental, Inc.
Design • Engineer • Construct

March 11, 2013

Project Reference No. 5701/5718

Joel Dykstra
Port Washington State Bank
206 N. Franklin Street
Port Washington, WI 53074

RE: Transaction Screen Assessment and Initial Subsurface Investigation Report Quality Cleaners, 1226 11th Avenue Grafton, WI 53024

Dear Joel:

Moraine Environmental, Inc. (Moraine) has prepared this letter report to summarize the findings of our Transaction Screen Assessment (TSA) and Preliminary Subsurface Investigation conducted at the above referenced building and property. One copy of this report has previously been emailed to your office and the office of Bruk Thompson, the real estate broker for the seller. The TSA was conducted in substantial conformance with the American Society for Testing and Materials (ASTM) Standard E 1528 - 06 "Standard Practice for Environmental Site Assessments: Transaction Screen Process". In addition, the Phase II Subsurface Investigation has been conducted with generally – accepted industry standards of practice and consisting of a scope of work that would be considered reasonable and sufficient to identify the presence and nature of a release.

The overall objective of the TSA was to determine if Potential Environmental Concerns (PEC's) exist in connection with the property. PEC's, as defined by ASTM, include the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release. This includes any release of any hazardous substances or petroleum products into structures on the property or into the soil, groundwater or surface water of the property. The term includes hazardous substances and petroleum products even under conditions in compliance with the law. This term is not intended to include de minimis conditions that do not generally present a material risk to human health or the environment and would not be the subject of an enforcement action if brought to the attention of the appropriate authorities. Conditions determined to be de minimis are not potential environmental concerns.

In general, the TSA process included the following:

- A review of regulatory environmental database records.

1402 7th Avenue • Grafton, WI 53024-2330 • (262) 377-9060 • Fax (262) 377-9770 • (800) 920-2205
Email: moraine@execpc.com • www.moraineenvironmental.com

- An inspection of the subject property and surrounding properties.
- Interview of the current property owner and completion of an environmental questionnaire by the owner.
- Preparation of this letter report.

Introduction and Background

The building is occupied with a dry cleaner, beauty salon and barber shop. The building is believed to have been constructed in the 1950s and was first occupied by the Village of Grafton post office.

Mr. Bruk Thompson, listing agent, accompanied Mr. Zoy Begos of Moraine during the site reconnaissance on February 13, 2013. Mr. Gerald Kuehl the owner of Quality Cleaners business, building, and property completed an environmental questionnaire.

Area and Site Description

Land uses in the immediate area of the subject property include:

- Commercial property is to the north
- Commercial properties are to the south
- Parking lot and commercial properties to the east.
- 11th Avenue is to the west.

The subject property is accessible from 11th Avenue along a concrete-paved driveway on the south side of the subject site. **Figure 1** presents a color aerial photograph of the facility and surrounding area.

Building Inspection, Interviews and Transaction Screen Questionnaire

Exterior Observations

The building is situated in a commercial and residential area of the Village of Grafton. The building is situated on the northwest portion of the site with asphalt/concrete surface to the south and east of the building.

The facility has natural gas and electric provided by WE Energies Municipal water and sewerage service is provided by the Village of Grafton.

No evidence of drums, tanks or other containers that could contain petroleum products or hazardous substances was noted in the area surrounding the building.

No discolored surface areas or stressed vegetation were noted during inspection of the exterior grounds. No pits, ponds, lagoons or containers that could hold petroleum products or hazardous substances were observed on the grounds, or along property lines of adjoining properties.

Interior Observations

As previously stated, the subject site is occupied by a barber shop, beauty shop and dry cleaner.

The dry cleaner has one single unit used for cleaning/drying. Associated solvent tanks/drums containing tetrachloroethene (PCE) are situated along the south east wall (corner) of the building. Active dry cleaning operations have not occurred on the property for the past 6+ months. However, the owner did indicate that dry cleaning operations had been conducted on-site for the past approximate 25 years.

There were no potential environmental concerns observed within the two other business units occupied by the barber shop or beauty salon.

The ASTM Environmental Questionnaire for the subject property, which was completed by Mr. Gerald Kuehl, is provided in **Appendix A**. There were items of environmental concern identified in the Environmental Questionnaire, mainly associated with the past dry cleaner operations.

Based on the Environmental Questionnaire and site observations, there are PEC's identified in connection with the subject property.

Environmental Database Records

Moraine utilized the services of the ERS – Environmental Record Search (ERS) to provide environmental database records from Federal and State regulatory agencies for the subject property and sites within a maximum one-mile radius of the subject site. A copy of the ERS report is provided in **Appendix B.** Detailed definitions are also included in the appendix.

ERS did not identify the subject site address within any of the database listings. Other nearby locations with environmental listings include the following:

Grafton Dry Cleaners/OL Tyme, 1229 11th Avenue, formally located across the street to the west, is listed as having a Surface Control, Environmental Repair Program (ERP) and Solid and Hazardous Waste Management Generator (SHWIMS) site located approximately 0.02 miles west of the subject site. The WDNR BRRTS website indicates this site is a "closed" ERP site with chlorinated VOC soil impacts and potential groundwater impacts. This site is not listed on the GIS database for residual soil or groundwater impacts. Based on its "closed" ERP status with no groundwater

impacts confirmed, this site likely does not pose an environmental concern to the subject site.

Silk Screen Specialists, 1231 11th Avenue is listed as a SHWIMS site located approximately 0.04 miles northwest of the subject site.

Blanks Truck Repair, 1302 11th Avenue is listed as an Underground Storage Tank (UST) site located approximately 0.05 miles south of the subject site. Based on its distance this site likely does not pose an environmental concern to the subject site.

Mobil Oil, 1117 Washington Street is listed as a Leaking Underground Storage Tank (LUST), UST, Aboveground Storage Tank Site (AST) and Surface Controls site located approximately 0.06 miles north of the subject site. Based on its distance and "Closed" LUST status, this site likely does not pose an environmental concern to the subject site.

Limited Subsurface Investigation

Based on the fact that the subject site has been an active dry cleaner for the past approximate 25 years, Moraine recommended a limited subsurface investigation to determine if a release has ever occurred associated with the dry cleaning operations.

On February 21, 2013, Moraines subcontractor, Horizon Construction & Exploration (Horizon) advanced three soil borings (B-1 thru B-3) ranging in depth from 2 feet below ground surface (bgs) to 6 feet bgs. A site layout depicting the soil boring locations is included in **Appendix C.**

Soil classification information was included on each soil boring log (**Appendix D**). Each soil sample was field-screened for volatile organic compounds (VOCs) utilizing a Photoionization detector instrument (PID). PID readings are noted on each soil boring log. Groundwater was not encountered in any of the soil borings conducted. Bedrock was encountered at approximately 6 feet bgs. Upon completion of the soil borings, each boring was abandoned with bentonite chips to seal the boring.

Select soil samples were submitted to Pace Analytical (PACE) for analysis of VOCs. A copy of the analytical report is included in **Appendix E**. The soil sample analytical results indicated that tetrachloroethene (PCE) was detected at concentrations of 68,700 micrograms per kilogram (ug/kg) within B-1and a low level result of 63.0J ug/kg within boring B-2. There were no other concentrations of VOCs within the soil samples collected from B-1 through B-3. The "J" indicates the concentration is just above the analytical instruments detection level and cannot be 100% confirmed, due to the low level concentration.

The WDNR's Residual Contaminant Level (RCL) for protection of the groundwater pathway for PCE is **4.5 ug/kg** in the soil. Thus, the sub slab soil analysis result of **68,700 ug/kg**, significantly exceeds the WDNR established standard.

Conclusions and Recommendations

In summary, the past use of the subject site as a dry cleaner is a potential environmental concern.

Therefore, a limited subsurface investigation was conducted on February 21, 2013, to determine if soil and/or groundwater quality had been adversely affected by any potential dry cleaner solvent release.

The analytical results indicate concentrations of PCE within the subsurface soil beneath the building and potentially within the bedrock and groundwater to the rear (east) of the building. Bedrock was encountered at approximately 6 feet bgs. Groundwater was not encountered within the top 6 feet of each soil boring advanced, thus it cannot be determined from the information collected to date, if groundwater has been affected.

Therefore, based on the above confirmation of environmental release, Moraine has identified one Potential Environmental Concern. **It is the opinion of the Environmental Professional preparing this report, that additional investigation is warranted and required.**

Moraine recommends that the release (PCE within subsurface soil) be reported to the Wisconsin Department of Natural Resources (WDNR) by the property owner. Reporting of this release is a requirement of the State of Wisconsin spills statute. Moraine can do the reporting to the WDNR with the owners permission.

The property owner will have to investigate the extent of the tetrachloroethene (PCE) release to the soils beneath the building. In addition, since fractured bedrock is located six feet below grade, drilling of the bedrock to determine if groundwater is impacted by the release will be required. Estimated costs to complete the follow up investigation to determine the extent of soil impacts and if groundwater has been impacted are as follows:

- Interior Sub Slab Building Soils Investigation.....$2,500.00
  (Seven Cored borings to 6' below ground surface)
- Exterior Bedrock Drilling.....$7,000.00
  (Three bedrock borings converted to groundwater monitoring wells)
- Laboratory Analysis for the above.....$1,275.00
  Soils – Fourteen soil samples (two per boring) @ $75.00 each ($1,050.00)
  Groundwater – Three groundwater samples @ $75.00 each ($225.00)
- Prepare Summary Report with CADD maps, analytical tables, and support documentation.....$3,000.00
- Senior Project Management/Principal.....$2,000.00

  Not to Exceed Total for above Work Scope..... $15,775.00

Although Moraine representatives don't have a crystal ball, the fact that the dry cleaning business only operated for approximately 25 years with a newer style single unit cleaning machine, it is possible that the release of PCE has only impacted sub slab soils and not the fractured bedrock affecting groundwater.

Please contact us at (262) 377-9060 with any questions regarding this report. Moraine would like to discuss the best case/worst case scenario with the owners. Thank you for the opportunity to assist you with this project.

Sincerely,
Moraine Environmental, Inc.

Thomas C. Sweet
President

Cc: Bruk.Thompson@cbexchange.com

F:\WORD\Mswteh57\5701 TSA Letter.doc

Figure 1

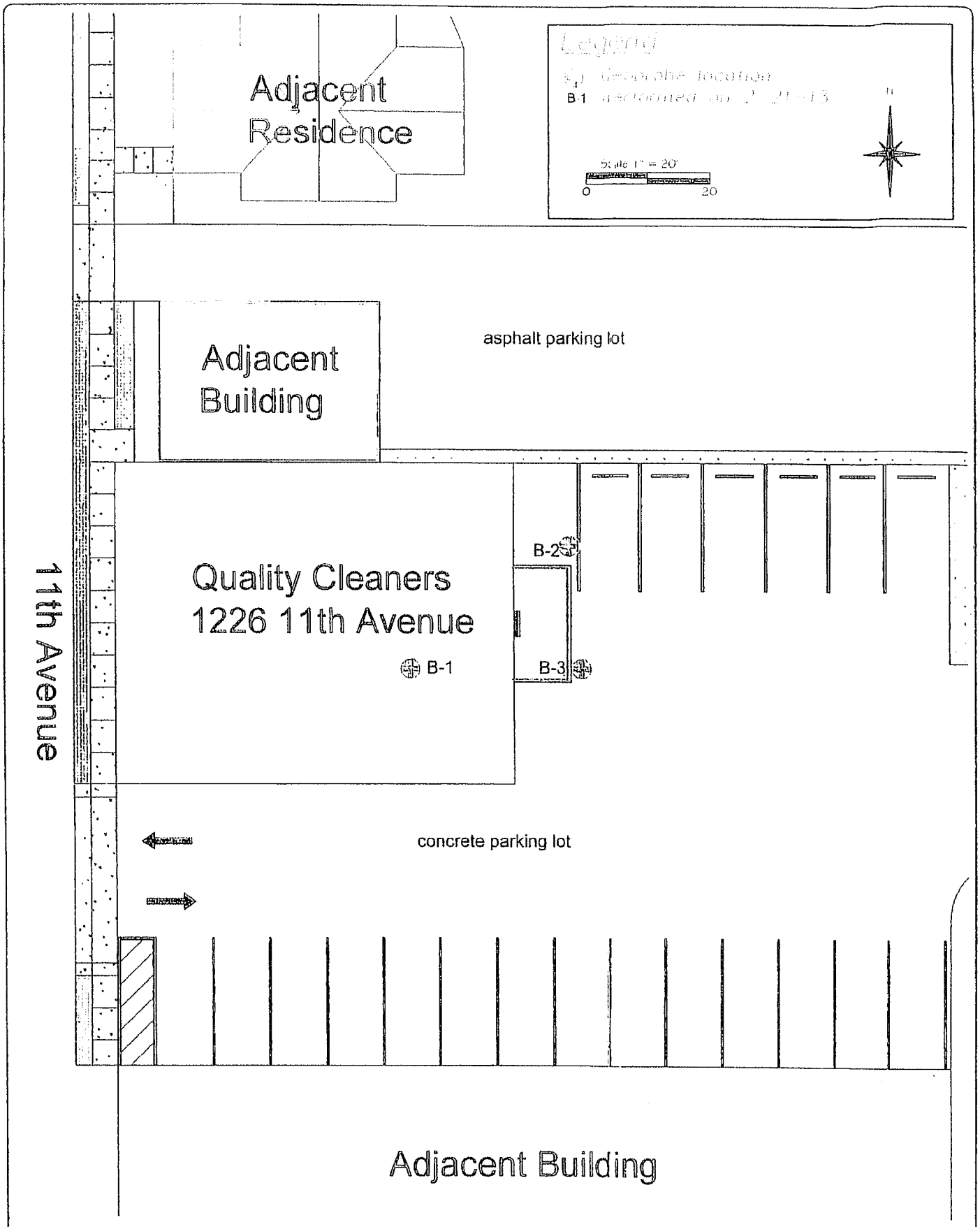
Color Aerial Photograph of Facility Location


1226 11th Ave Grafton, WI 53024, USA
Bridge St
11th Ave
© 2013 Google
Google earth
Google earth
feet
meters
200
60

FIGURE 1

Appendix C

Site layout with Soil Boring Locations

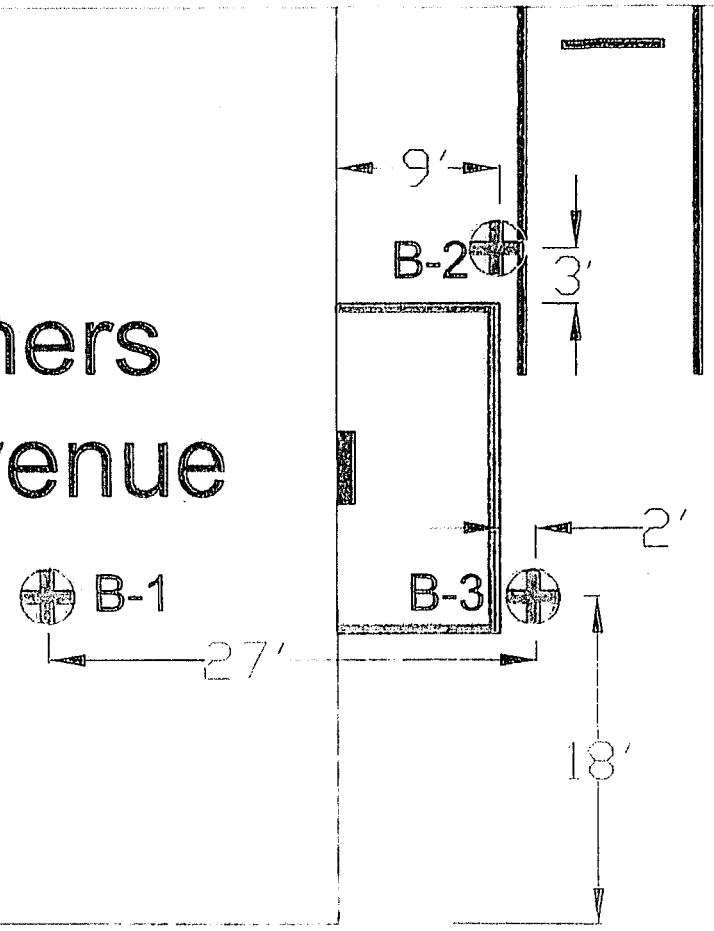


Scale 1" = 20'	FIGURE 2 SITE PLAN	Moraine Environmental, Inc Environmental Management Services
Revised by CTS		
Revised: 3-12-13		
Project File: Matek57\57-B Working.dwg	QUALITY CLEANERS 1226 11TH AVENUE GRAFTON, WISCONSIN	
*Note: Depiction prepared from field measurements		

Adjacent Building

asphalt parking lot

Quality Cleaners
1226 11th Avenue



concrete parking lot

Scale 1" = 10'

Scale 1" = 10'	FIGURE 3 Geoprobe/Temporary Well Location Detail	Moraine Environmental, Inc. Environmental Management Services
Revised by CTS Revised: 3-12-13	QUALITY CLEANERS 1226 11TH AVENUE GRAFTON, WISCONSIN	
Project File: Metek57\5718 Working dwg		
*Note: Depiction prepared from field measurements.		

Appendix D

Soil Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name: Quality Cleaners	License/Permit/Monitoring Number	Boring Number: B-1
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Adam Last Name: Sweet — Firm: Horizon Construction and Exploration	Date Drilling Started: 02,21,2013 (m m d d y y y y)	Date Drilling Completed: 02,21,2013 (m m d d y y y y) — Drilling Method: Direct Push
WI Unique Well No. _ _ _ _ _ _ — DNR Well ID No. _ _ _ _ — Well Name	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL — Borehole Diameter: 2.25 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
Facility ID	County: Ozaukee — County Code	Civil Town/City/ or Village: Village of Grafton

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											
			0-0.5'	Concrete										
			0.5-1'	Fine Sand				9						
			1-2'	black peat				7.1						

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

Signature	Firm
Dan Zd	Moraine Environmental

State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quality Cleaners		B-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam Last Name: Sweet Firm: Horizon Construction and Exploration	02/21/2013 (mm dd yyyy)	02/21/2013 (mm dd yyyy)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _		______ Feet MSL	______ Feet MSL	2.25 inches

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

Facility ID	County	County Code	Civil Town/City/ or Village
	Ozaukee	___ ___	Village of Grafton

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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0' - 6"	Concrete										
			6" - 1'	pea gravel				0						
			1' - 2'	black silt				0						
			2' - 4'	brown silt				0						
			4' - 5'	1/4" rock coarse sand				0						6 Feet
			5' - 6'	1/2 [illegible] [illegible] at 6'				0						

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

Signature	Firm
Dan [illegible]	Moraine Environmental

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Quality Cleaners		B-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam Last Name: Sweet Firm: Horizon Construction and Exploration	02/21/2013 (m m d d y y y y)	02/21/2013 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2.25 inches

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

Facility ID	County	County Code	Civil Town/City/ or Village
	Ozaukee	_ _ _	Village of Grafton

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											
			1 6"	concrete				0						
			1 7"	pea gravel										
			1 3'	black pete				0						
			1 4'	black pete				0						
			1 6'	brown clay bedrock Starts 6'				0						Sample 5 Feet

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

Signature	Firm
Jon Fal	Moraine Environmental

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

Appendix E

Pace Analytical Laboratory Report

Pace Analytical®
www.pacelabs.com

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

March 06, 2013

Tom Sweet
Moraine Environmental, Inc.
1402 7th Avenue
Grafton, WI 530242330

RE: Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Dear Tom Sweet:
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

Pace Analytical
www.pacelabs.com

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

CERTIFICATIONS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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www.pacelabs.com

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

SAMPLE SUMMARY

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4074280001	B-1	Solid	02/21/13 00:00	02/23/13 09:15
4074280002	B-2 6'	Solid	02/21/13 00:00	02/23/13 09:15
4074280003	B-3 5'	Solid	02/21/13 00:00	02/23/13 09:15

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

SAMPLE ANALYTE COUNT

Project: 5718 QUALITY CLEANERS
Pace Project No: 4074280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4074280001	B-1	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
4074280002	B-2 6'	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
4074280003	B-3 5'	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

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(920)469-2436

ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Sample: B-1 Lab ID: 4074280001 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	71-43-2	W
Bromobenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	108-86-1	W
Bromochloromethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	74-97-5	W
Bromodichloromethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-27-4	W
Bromoform	<259	ug/kg	600	259	10	02/28/13 06:32	03/01/13 11:45	75-25-2	W
Bromomethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	74-83-9	W
n-Butylbenzene	<404	ug/kg	600	404	10	02/28/13 06:32	03/01/13 11:45	104-51-8	W
sec-Butylbenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	135-98-8	W
tert-Butylbenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	98-06-6	W
Carbon tetrachloride	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	56-23-5	W
Chlorobenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	108-90-7	W
Chloroethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-00-3	W
Chloroform	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	67-66-3	W
Chloromethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	74-87-3	W
2-Chlorotoluene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	95-49-8	W
4-Chlorotoluene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	106-43-4	W
1,2-Dibromo-3-chloropropane	<823	ug/kg	2500	823	10	02/28/13 06:32	03/01/13 11:45	96-12-8	W
Dibromochloromethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	124-48-1	L2,W
1,2-Dibromoethane (EDB)	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	106-93-4	W
Dibromomethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	74-95-3	W
1,2-Dichlorobenzene	<444	ug/kg	600	444	10	02/28/13 06:32	03/01/13 11:45	95-50-1	W
1,3-Dichlorobenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	541-73-1	W
1,4-Dichlorobenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	106-46-7	W
Dichlorodifluoromethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-71-8	W
1,1-Dichloroethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-34-3	W
1,2-Dichloroethane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	107-06-2	W
1,1-Dichloroethene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-35-4	W
cis-1,2-Dichloroethene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	156-59-2	W
trans-1,2-Dichloroethene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	156-60-5	W
1,2-Dichloropropane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	78-87-5	W
1,3-Dichloropropane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	142-28-9	W
2,2-Dichloropropane	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	594-20-7	W
1,1-Dichloropropene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	563-58-6	W
cis-1,3-Dichloropropene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	10061-01-5	W
trans-1,3-Dichloropropene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	10061-02-6	W
Diisopropyl ether	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	108-20-3	W
Ethylbenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	100-41-4	W
Hexachloro-1,3-butadiene	<264	ug/kg	600	264	10	02/28/13 06:32	03/01/13 11:45	87-68-3	W
Isopropylbenzene (Cumene)	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	98-82-8	W
p-Isopropyltoluene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	99-87-6	W
Methylene Chloride	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-09-2	W
Methyl-tert-butyl ether	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	1634-04-4	W
Naphthalene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	91-20-3	W
n-Propylbenzene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	103-65-1	W
Styrene	<250	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	100-42-5	W

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(920)469-2436

ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Sample: B-1 Lab ID: 4074280001 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method. EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	630-20-6	W
1,1,2,2-Tetrachloroethane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	79-34-5	W
Tetrachloroethene	**68700**	ug/kg	676	282	10	02/28/13 06:32	03/01/13 11:45	127-18-4	
Toluene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	108-88-3	W
1,2,3-Trichlorobenzene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	87-61-6	W
1,2,4-Trichlorobenzene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	120-82-1	W
1,1,1-Trichloroethane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	71-55-6	W
1,1,2-Trichloroethane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	79-00-5	W
Trichloroethene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	79-01-6	W
Trichlorofluoromethane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-69-4	W
1,2,3-Trichloropropane	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	96-18-4	W
1,2,4-Trimethylbenzene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	95-63-6	W
1,3,5-Trimethylbenzene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	108-67-8	W
Vinyl chloride	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	75-01-4	W
m&p-Xylene	**<500**	ug/kg	1200	500	10	02/28/13 06:32	03/01/13 11:45	179601-23-1	W
o-Xylene	**<250**	ug/kg	600	250	10	02/28/13 06:32	03/01/13 11:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%.	57-130		10	02/28/13 06:32	03/01/13 11:45	1868-53-7	
Toluene-d8 (S)	88	%.	54-133		10	02/28/13 06:32	03/01/13 11:45	2037-26-5	
4-Bromofluorobenzene (S)	78	%	49-130		10	02/28/13 06:32	03/01/13 11:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.2**	%	0.10	0.10	1		02/25/13 11:38		

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

ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No. 4074280

Sample: B-2 6' Lab ID: 4074280002 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	02/28/13 06:32	03/01/13 11:22	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	02/28/13 06:32	03/01/13 11:22	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	02/28/13 06:32	03/01/13 11:22	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	124-48-1	L2,W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	02/28/13 06:32	03/01/13 11:22	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	02/28/13 06:32	03/01/13 11:22	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	100-42-5	W

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ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Sample: B-2 6' Lab ID: 4074280002 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	87-61-6	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	02/28/13 06:32	03/01/13 11:22	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	02/28/13 06:32	03/01/13 11:22	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	78	%.	57-130		1	02/28/13 06:32	03/01/13 11:22	1868-53-7	
Toluene-d8 (S)	86	%.	54-133		1	02/28/13 06:32	03/01/13 11:22	2037-26-5	
4-Bromofluorobenzene (S)	74	%.	49-130		1	02/28/13 06:32	03/01/13 11:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		02/25/13 11:38		

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ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Sample: B-3 5' Lab ID: 4074280003 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	03/04/13 12:00	03/05/13 21:24	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	03/04/13 12:00	03/05/13 21:24	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	03/04/13 12:00	03/05/13 21:24	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	03/04/13 12:00	03/05/13 21:24	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	03/04/13 12:00	03/05/13 21:24	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	100-42-5	W

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ANALYTICAL RESULTS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Sample: B-3 5' Lab ID: 4074280003 Collected: 02/21/13 00:00 Received: 02/23/13 09:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	79-34-5	W
Tetrachloroethene	**63.0J**	ug/kg	79.5	33.1	1	03/04/13 12:00	03/05/13 21:24	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	87-61-6	W
1,2,4-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	03/04/13 12:00	03/05/13 21:24	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	03/04/13 12:00	03/05/13 21:24	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	57-130		1	03/04/13 12:00	03/05/13 21:24	1868-53-7	
Toluene-d8 (S)	98	%.	54-133		1	03/04/13 12:00	03/05/13 21:24	2037-26-5	
4-Bromofluorobenzene (S)	84	%.	49-130		1	03/04/13 12:00	03/05/13 21:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.5**	%	0.10	0.10	1		02/25/13 11:38		

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

QC Batch: MSV/18707
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4074280001, 4074280002

METHOD BLANK: 754520
Matrix: Solid
Associated Lab Samples: 4074280001, 4074280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1-Dichloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1-Dichloroethene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,1-Dichloropropene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2-Dibromo-3-chloropropane	ug/kg	<82.3	250	02/28/13 09:22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2-Dichlorobenzene	ug/kg	<44.4	60.0	02/28/13 09:22	
1,2-Dichloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,2-Dichloropropane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
1,3-Dichloropropane	ug/kg	<25.0	60.0	02/28/13 09:22	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
2,2-Dichloropropane	ug/kg	<25.0	60.0	02/28/13 09:22	
2-Chlorotoluene	ug/kg	<25.0	60.0	02/28/13 09:22	
4-Chlorotoluene	ug/kg	<25.0	60.0	02/28/13 09:22	
Benzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Bromobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Bromochloromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Bromodichloromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Bromoform	ug/kg	<25.9	60.0	02/28/13 09:22	
Bromomethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Carbon tetrachloride	ug/kg	<25.0	60.0	02/28/13 09:22	
Chlorobenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Chloroethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Chloroform	ug/kg	<25.0	60.0	02/28/13 09:22	
Chloromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	02/28/13 09:22	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	02/28/13 09:22	
Dibromochloromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Dibromomethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Diisopropyl ether	ug/kg	<25.0	60.0	02/28/13 09:22	
Ethylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Hexachloro-1,3-butadiene	ug/kg	<26.4	60.0	02/28/13 09:22	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	02/28/13 09:22	

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No 4074280

METHOD BLANK: 754520 Matrix: Solid

Associated Lab Samples: 4074280001, 4074280002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	02/28/13 09:22	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	02/28/13 09:22	
Methylene Chloride	ug/kg	<25.0	60.0	02/28/13 09:22	
n-Butylbenzene	ug/kg	<40.4	60.0	02/28/13 09:22	
n-Propylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Naphthalene	ug/kg	<25.0	60.0	02/28/13 09:22	
o-Xylene	ug/kg	<25.0	60.0	02/28/13 09:22	
p-Isopropyltoluene	ug/kg	<25.0	60.0	02/28/13 09:22	
sec-Butylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Styrene	ug/kg	<25.0	60.0	02/28/13 09:22	
tert-Butylbenzene	ug/kg	<25.0	60.0	02/28/13 09:22	
Tetrachloroethene	ug/kg	<25.0	60.0	02/28/13 09:22	
Toluene	ug/kg	<25.0	60.0	02/28/13 09:22	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	02/28/13 09:22	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	02/28/13 09:22	
Trichloroethene	ug/kg	<25.0	60.0	02/28/13 09:22	
Trichlorofluoromethane	ug/kg	<25.0	60.0	02/28/13 09:22	
Vinyl chloride	ug/kg	<25.0	60.0	02/28/13 09:22	
4-Bromofluorobenzene (S)	%.	100	49-130	02/28/13 09:22	
Dibromofluoromethane (S)	%.	101	57-130	02/28/13 09:22	
Toluene-dB (S)	%.	106	54-133	02/28/13 09:22	

LABORATORY CONTROL SAMPLE & LCSD: 754521 754522

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2270	2430	91	97	70-130	7	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2130	2160	85	86	70-130	1	20	
1,1,2-Trichloroethane	ug/kg	2500	2140	2170	86	87	70-130	2	20	
1,1-Dichloroethane	ug/kg	2500	2220	2170	89	87	70-130	2	20	
1,1-Dichloroethene	ug/kg	2500	2130	2240	85	90	64-130	5	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2230	2390	89	95	68-130	7	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1720	1790	69	72	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2200	2320	88	93	70-130	5	20	
1,2-Dichlorobenzene	ug/kg	2500	2230	2250	89	90	70-130	1	20	
1,2-Dichloroethane	ug/kg	2500	2770	2900	111	116	70-130	4	20	
1,2-Dichloropropane	ug/kg	2500	2310	2370	93	95	70-130	2	20	
1,3-Dichlorobenzene	ug/kg	2500	2320	2340	93	94	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	2500	2290	2340	91	94	70-130	2	20	
Benzene	ug/kg	2500	2860	2880	114	115	70-130	1	20	
Bromodichloromethane	ug/kg	2500	1870	1960	75	78	70-130	5	20	
Bromoform	ug/kg	2500	1600	1750	64	70	63-130	9	20	
Bromomethane	ug/kg	2500	2110	2220	84	89	41-142	5	20	
Carbon tetrachloride	ug/kg	2500	2150	2120	86	85	70-130	1	20	
Chlorobenzene	ug/kg	2500	2270	2350	91	94	70-130	3	20	
Chloroethane	ug/kg	2500	2390	2430	96	97	57-130	2	20	

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

LABORATORY CONTROL SAMPLE & LCSD: 754521 754522

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/kg	2500	2240	2330	90	93	70-130	4	20	
Chloromethane	ug/kg	2500	2370	2500	95	100	57-130	5	20	
cis-1,2-Dichloroethene	ug/kg	2500	2250	2270	90	91	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	2500	1840	1890	73	75	70-130	3	20	
Dibromochloromethane	ug/kg	2500	1740	1850	69	74	70-130	6	20	L0
Dichlorodifluoromethane	ug/kg	2500	2090	2150	84	86	31-150	3	20	
Ethylbenzene	ug/kg	2500	2280	2310	91	92	65-137	1	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2390	2430	96	97	70-130	2	20	
m&p-Xylene	ug/kg	5000	4570	4660	91	93	64-139	2	20	
Methyl-tert-butyl ether	ug/kg	2500	2060	2290	82	92	69-130	11	20	
Methylene Chloride	ug/kg	2500	2250	2350	90	94	70-130	4	20	
o-Xylene	ug/kg	2500	2440	2480	98	99	63-135	1	20	
Styrene	ug/kg	2500	2230	2270	89	91	69-130	2	20	
Tetrachloroethene	ug/kg	2500	2260	2210	90	88	70-130	2	20	
Toluene	ug/kg	2500	2360	2320	95	93	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2230	2320	89	93	70-130	4	20	
trans-1,3-Dichloropropene	ug/kg	2500	1910	2000	76	80	70-130	5	20	
Trichloroethene	ug/kg	2500	2430	2450	97	98	70-130	1	20	
Trichlorofluoromethane	ug/kg	2500	1990	2120	80	85	50-150	6	20	
Vinyl chloride	ug/kg	2500	2320	2460	93	98	57-130	6	20	
4-Bromofluorobenzene (S)	%.				96	104	49-130			
Dibromofluoromethane (S)	%.				92	103	57-130			
Toluene-d8 (S)	%.				98	104	54-133			

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

QC Batch: MSV/18732
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4074280003

METHOD BLANK: 756030
Matrix: Solid
Associated Lab Samples: 4074280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1-Dichloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1-Dichloroethene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,1-Dichloropropene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2-Dibromo-3-chloropropane	ug/kg	<82.3	250	03/05/13 19:07	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2-Dichlorobenzene	ug/kg	<44.4	60.0	03/05/13 19:07	
1,2-Dichloroethane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,2-Dichloropropane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
1,3-Dichloropropane	ug/kg	<25.0	60.0	03/05/13 19:07	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
2,2-Dichloropropane	ug/kg	<25.0	60.0	03/05/13 19:07	
2-Chlorotoluene	ug/kg	<25.0	60.0	03/05/13 19:07	
4-Chlorotoluene	ug/kg	<25.0	60.0	03/05/13 19:07	
Benzene	ug/kg	<25.0	60.0	03/05/13 19.07	
Bromobenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
Bromochloromethane	ug/kg	<25 0	60.0	03/05/13 19:07	
Bromodichloromethane	ug/kg	<25 0	60.0	03/05/13 19:07	
Bromoform	ug/kg	<25.9	60.0	03/05/13 19:07	
Bromomethane	ug/kg	<25.0	60.0	03/05/13 19:07	
Carbon tetrachloride	ug/kg	<25 0	60.0	03/05/13 19:07	
Chlorobenzene	ug/kg	<25.0	60.0	03/05/13 19.07	
Chloroethane	ug/kg	<25.0	60.0	03/05/13 19.07	
Chloroform	ug/kg	<25 0	60.0	03/05/13 19:07	
Chloromethane	ug/kg	<25.0	60.0	03/05/13 19 07	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	03/05/13 19:07	
cis-1,3-Dichloropropene	ug/kg	<25 0	60.0	03/05/13 19:07	
Dibromochloromethane	ug/kg	<25 0	60.0	03/05/13 19 07	
Dibromomethane	ug/kg	<25.0	60.0	03/05/13 19.07	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	03/05/13 19:07	
Diisopropyl ether	ug/kg	<25.0	60.0	03/05/13 19.07	
Ethylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
Hexachloro-1,3-butadiene	ug/kg	<26.4	60.0	03/05/13 19.07	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	03/05/13 19:07	

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

METHOD BLANK: 756030 Matrix: Solid

Associated Lab Samples: 4074280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	03/05/13 19:07	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	03/05/13 19:07	
Methylene Chloride	ug/kg	<25.0	60.0	03/05/13 19:07	
n-Butylbenzene	ug/kg	<40.4	60.0	03/05/13 19:07	
n-Propylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
Naphthalene	ug/kg	<25.0	60.0	03/05/13 19:07	
o-Xylene	ug/kg	<25.0	60.0	03/05/13 19:07	
p-Isopropyltoluene	ug/kg	<25.0	60.0	03/05/13 19:07	
sec-Butylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
Styrene	ug/kg	<25.0	60.0	03/05/13 19:07	
tert-Butylbenzene	ug/kg	<25.0	60.0	03/05/13 19:07	
Tetrachloroethene	ug/kg	<25.0	60.0	03/05/13 19:07	
Toluene	ug/kg	<25.0	60.0	03/05/13 19:07	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	03/05/13 19:07	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	03/05/13 19:07	
Trichloroethene	ug/kg	<25.0	60.0	03/05/13 19:07	
Trichlorofluoromethane	ug/kg	<25.0	60.0	03/05/13 19:07	
Vinyl chloride	ug/kg	<25.0	60.0	03/05/13 19:07	
4-Bromofluorobenzene (S)	%.	90	49-130	03/05/13 19:07	
Dibromofluoromethane (S)	%.	94	57-130	03/05/13 19:07	
Toluene-d8 (S)	%.	99	54-133	03/05/13 19:07	

LABORATORY CONTROL SAMPLE & LCSD: 756031 756032

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2410	2720	97	109	70-130	12	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2210	2240	88	90	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	2500	2350	2380	94	95	70-130	1	20	
1,1-Dichloroethane	ug/kg	2500	2300	2500	92	100	70-130	8	20	
1,1-Dichloroethene	ug/kg	2500	2160	2400	86	96	64-130	11	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2420	2630	97	105	68-130	8	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2170	2110	87	85	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2300	2340	92	93	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	2500	2210	2290	88	92	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2270	2410	91	97	70-130	6	20	
1,2-Dichloropropane	ug/kg	2500	2290	2470	92	99	70-130	7	20	
1,3-Dichlorobenzene	ug/kg	2500	2370	2450	95	98	70-130	4	20	
1,4-Dichlorobenzene	ug/kg	2500	2240	2390	90	95	70-130	6	20	
Benzene	ug/kg	2500	2210	2480	88	99	70-130	12	20	
Bromodichloromethane	ug/kg	2500	2210	2410	89	96	70-130	8	20	
Bromoform	ug/kg	2500	1930	1970	77	79	63-130	2	20	
Bromomethane	ug/kg	2500	2030	2250	81	90	41-142	10	20	
Carbon tetrachloride	ug/kg	2500	2560	2080	102	83	70-130	21	20	R1
Chlorobenzene	ug/kg	2500	2320	2420	93	97	70-130	4	20	
Chloroethane	ug/kg	2500	2140	2350	86	94	57-130	9	20	

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

LABORATORY CONTROL SAMPLE & LCSD: 756031 756032

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/kg	2500	2350	2600	94	104	70-130	10	20	
Chloromethane	ug/kg	2500	1850	1940	74	78	57-130	5	20	
cis-1,2-Dichloroethene	ug/kg	2500	2240	2480	89	99	70-130	10	20	
cis-1,3-Dichloropropene	ug/kg	2500	1920	2030	77	81	70-130	5	20	
Dibromochloromethane	ug/kg	2500	2030	2110	81	84	70-130	4	20	
Dichlorodifluoromethane	ug/kg	2500	1300	1500	52	60	31-150	15	20	
Ethylbenzene	ug/kg	2500	2330	2490	93	100	65-137	7	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2370	2490	95	100	70-130	5	20	
m&p-Xylene	ug/kg	5000	4740	5080	95	102	64-139	7	20	
Methyl-tert-butyl ether	ug/kg	2500	2260	2420	90	97	69-130	7	20	
Methylene Chloride	ug/kg	2500	2240	2390	90	96	70-130	6	20	
o-Xylene	ug/kg	2500	2470	2540	99	102	63-135	3	20	
Styrene	ug/kg	2500	2290	2460	92	99	69-130	7	20	
Tetrachloroethene	ug/kg	2500	2280	2450	91	98	70-130	8	20	
Toluene	ug/kg	2500	2400	2570	96	103	70-130	7	20	
trans-1,2-Dichloroethene	ug/kg	2500	2280	2500	91	100	70-130	9	20	
trans-1,3-Dichloropropene	ug/kg	2500	2070	2160	83	87	70-130	4	20	
Trichloroethene	ug/kg	2500	2350	2430	94	97	70-130	3	20	
Trichlorofluoromethane	ug/kg	2500	1990	2220	80	89	50-150	11	20	
Vinyl chloride	ug/kg	2500	1930	2150	77	86	57-130	11	20	
4-Bromofluorobenzene (S)	%.				89	94	49-130			
Dibromofluoromethane (S)	%.				96	108	57-130			
Toluene-d8 (S)	%.				96	103	54-133			

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QUALITY CONTROL DATA

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

QC Batch: PMST/8234 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description Dry Weight/Percent Moisture
Associated Lab Samples: 4074280001, 4074280002, 4074280003

SAMPLE DUPLICATE: 753515

Parameter	Units	4074282001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.0	7.0	0	10	

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QUALIFIERS

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/18709

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/18733

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits Results may be biased low
R1	RPD value was outside control limits
W	Non-detect results are reported on a wet weight basis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5718 QUALITY CLEANERS
Pace Project No.: 4074280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4074280001	B-1	EPA 5035/5030B	MSV/18707	EPA 8260	MSV/18709
4074280002	B-2 6'	EPA 5035/5030B	MSV/18707	EPA 8260	MSV/18709
4074280003	B-3 5'	EPA 5035/5030B	MSV/18732	EPA 8260	MSV/18733
4074280001	B-1	ASTM D2974-87	PMST/8234		
4074280002	B-2 6'	ASTM D2974-87	PMST/8234		
4074280003	B-3 5'	ASTM D2974-87	PMST/8234		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

4074280

(Please Print Clearly)	
Company Name:	Moraine Environmental
Branch/Location:	Grafton, WI
Project Contact:	TOM SWEET
Phone:	(262) 377-9060
Project Number:	5718
Project Name:	Quality Cleaners
Project State:	WI
Sampled By (Print):	DAN FISHER
Sampled By (Sign):	Dan Fish
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	TOM SWEET
Mail To Company:	Moraine Environmental
Mail To Address:	1402 7th Ave Grafton WI 53024
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	(262) 377-9060

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

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick	Analysis Requested: VOCs	Analysis Requested: Dry Weight
					N	F	VOCs	Dry Weight
001	B-1	1/21/13		S	X	X		
002	B-2 6Feet	1/21/13		S	X	X		
003	B-3 5 Feet	1/21/13		S	X	X		

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only) — Profile #

1-4oz 1/2 A; 1-40 mL F

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Dan Fish	2/21/13	Mary Tammin	2/22/13 10:10
Mary Tammin	2/22/13 1300		
CS Logistics	2/23/13 0915	Mark A. Glenke	2/23/13 0915

PACE Project No.: 4074280

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

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

Version 6.0 06/14/06

C019a(27Jun2006)

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

Pace Analytical

Sample Condition Upon Receipt

Client Name: Moraine Env Project # 10142850

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

Tracking #: CS Logistics

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None Other Poly Bags

Thermometer Used NA Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature 4.0C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 2-23-13
Initials: MW

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☒Yes ☐No ☐N/A	12. no times on COC or samples, 2/23/13 mc
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted. _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/25/13

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)

Moraine Environmental, Inc.
Design • Engineer • Construct

April 8, 2013

Project Reference No. 5735

Jerry & Barb Kuehl
5350 Cascade Drive
West Bend, WI 53095

Dear Jerry & Barb:

RE: Subsurface Investigation Report
Quality Cleaners
1228 11th Avenue
Grafton, Wisconsin 53024

This report is to summarize the subsurface investigation work completed by Moraine Environmental, Inc. (Moraine) at the Quality Cleaners property in Grafton.

Dry Cleaning Solvent Tetrachloroethylene

The active dry cleaning solvent tetrachloroethylene is also identified as PCE and will be referred to as PCE in this letter report.

Site Investigation Requirements

The Wisconsin Department of Natural Resources (WDNR) requires that the following items be evaluated as part of the Site Investigation:

- Soil impacts
- Groundwater impacts in the soil and bedrock
- Underground utility lines, if present on the site. Contaminated groundwater or soil vapors can migrate along the sand or stone backfill around underground utility lines.
- Vapor migration into the on-site building. The PCE in the soil and groundwater can volatilize and enter the vapors (air) in the soil beneath the on-site building. These vapors can migrate into the building through pipelines entering the building, cracks in the building foundation and in other ways.

1402 7th Avenue • Grafton, WI 53024-2330 • (262) 377-9060 • Fax (262) 377-9770 • (800) 920-2205
Email: moraine@execpc.com • www.moraineenvironmental.com

Investigation Activities

Moraine has completed the following subsurface investigative activities at the 1228 11th Avenue property:

- February 21, 2013. Drilled soil borings B-1, B-2 and B-3. Boring B-1 was inside the building near where the former dry cleaning machine was located. Borings B-2 and B-3 were outside to the east of the building.

- March 18, 2013. Drilled soil borings B-4 through B-10. Each of these borings was located inside the building.

- March 21, 2013. Installed groundwater monitoring wells MW-1 and MW-2 in the rear parking lot area. Both of these wells were drilled into the bedrock.

- Soil samples collected during drilling of the soil borings were submitted to the Pace Analytical laboratory (Pace) in Green Bay, Wisconsin for analysis. A groundwater sample was also collected from wells MW-1 and MW-2 and submitted to Pace for analysis.

Soil Quality Findings

The WDNR has established a maximum concentration of 4.5 parts-per-billion for PCE in the soil to protect groundwater quality. As rainfall infiltrates into the soil, it can dissolve compounds such as PCE and carry these contaminants down to the groundwater table. At that point, the PCE dissolves in the groundwater and is carried with the groundwater as it flows. For this reason, the WDNR has set the 4.5 parts-per-billion maximum standard for PCE in the soil.

A second soil quality standard has been established by the WDNR to protect against direct human contact with contaminated soil. This standard applies only to the upper four feet of soil at a site. This standard for PCE is 30,700 parts-per-billion. This regulation means that a barrier, such as a concrete or asphalt surface or an existing building, must be in-place over any soils having PCE in concentrations greater than 30,700 parts-per-billion. This WDNR regulation is due to the concern about adults and children possibly eating the contaminated soil or breathing contaminated vapors or particulates from the impacted soil.

For most sites, all of the soil and groundwater contamination is not cleaned up prior to the WDNR closing the case and issuing a Case Closure letter. Usually, this is due to the high costs of cleaning up the impacted soil or groundwater to the WDNR cleanup standards. The WDNR recognizes the high cost of a complete cleanup and routinely closes cases with some residual soil or groundwater contamination. Properties closed by the WDNR with residual soil or groundwater contamination are listed by the WDNR on a database on the Internet known as the Geographic Information System registry. Information

about the type of contaminant and the extent of the contamination are provided on the site listing on the Internet.

The PCE levels in the soil samples analyzed from your property are summarized on Tables 1a and 1b in **Attachment A.** The PCE concentrations are also shown on the site plan provided in **Attachment B.** There was no detect for PCE at soil boring B-2, located outside the building to the immediate east. The remaining soil samples all had detects for PCE ranging from 63 parts-per-billion at boring B-3 to a high of 68,700 parts-per-billion at boring B-1. These concentrations exceed the groundwater protection standard of 4.5 parts-per-billion for PCE in the soil. PCE concentrations in the soil greater than 1,000 to 2,000 parts-per-billion are high and present potential vapor release issues as well as soil and groundwater protection concerns.

As part of the site investigation, the WDNR requires that the horizontal and vertical extent of both soil and groundwater contamination be defined. Based on the soil sample analysis completed to date, the lateral extent of the PCE in the shallow soil at the Quality Cleaners site has not been defined.

Groundwater Quality Findings

The WDNR has established two groundwater quality standards for PCE. These standards are 5 parts-per-billion and 0.5 parts-per-billion. The standard we are most concerned about is the 5 parts-per-billion concentration.

The PCE concentration at monitoring well MW-2 is 896 parts-per-billion and the PCE concentration at well MW-1 is 32.9 parts-per-billion. Both of these concentrations are greater than the 5 parts-per-billion groundwater quality standard. The PCE concentrations are summarized on Table 2 in **Attachment C**.

Based on the groundwater analysis completed to date, the lateral extent of the PCE in the groundwater at the Quality Cleaners site has not been defined.

Recommendations for Completing the Soil and Groundwater Investigation

To move our project toward a complete site investigation and case closure by the WDNR, Moraine recommends the following:

Soil Investigation

As stated earlier in this letter, the lateral extent of the PCE in the soil in concentrations greater than 4.5 parts-per-billion is required to be defined by the WDNR. To define the extent of the PCE in the soil, we recommend that 9 additional shallow soil borings be drilled. One or two soil samples will be collected from each boring and analyzed at the Pace laboratory for PCE. The locations of these soil borings are shown on the site plan provided in

Attachment D. Seven of the proposed soil borings are located along the north, west and south property lines of your site. Two of the soil borings are located in the parking lot area on the east (rear) side of the property. We are placing the majority of the borings along your property lines, as we need to have PCE concentrations less than the 4.5 parts-per-billion standard in these soil samples to successfully define the lateral extent of the PCE-impacted soils.

The estimated cost for drilling these soil borings and the laboratory costs is $5,500.00.

Groundwater Investigation

We expect the horizontal groundwater flow direction at your property is from west to east toward the Milwaukee River. Similar to the soil impacts, we are required to define the lateral extent of the impacted groundwater. To minimize the costs for the groundwater investigation, we would like to continue this investigation in stages. At this time, we propose to install two additional groundwater monitoring wells. One well would be installed along the sidewalk along 11th Avenue in front of your building. As the groundwater flow is from west to east across your property, this well would be upgradient of the source of the PCE which is inside your building. The second down gradient monitoring well would be placed either along your east property line, on the neighboring property to the east or along 12th Avenue. Analysis of groundwater samples from these two wells will indicate whether or not the impacted groundwater has migrated to the west beneath 11th Avenue or further to the east of your property.

The estimated cost for drilling these two monitoring wells and the laboratory analytical costs is $4,200.00.

Vapor Migration into the Building

As discussed earlier, the WDNR requires an investigation to determine if the impacted vapors are possibly migrating into the breathing space inside your building. PCE is a highly volatile chemical and presents a significant health risk if inhaled.

The depth to bedrock beneath your building is from 4 feet to approximately 6.5 feet below ground surface. During construction of the building, it is likely that the footings around the perimeter of the building extended down to the bedrock surface. With this construction, the contaminated soils beneath your building are contained in a "box", with the top of the bedrock surface being the bottom of the box, the footings around the perimeter of the building being the walls of the box and the concrete floor of the building being the top of the box.

To address the vapor migration issue, we have the following two approaches:

- Remove a small portion of the highly contaminated soils beneath the former dry cleaning machine area within your building.

- Install a vapor extraction system beneath your building to collect the PCE vapors before they can enter the building.

Excavation of all of the contaminated soils from beneath your building would be very costly and require significant disruption to the building and it's operations. For these reasons, the soil removal and landfill disposal option is likely not financially or operationally feasible.

The installation of an active soil vapor extraction system appears to be the more feasible option to address the vapor migration issue at your site. The vapor extraction system removes soil vapors from the subsurface and discharges them to the atmosphere. The containment of the impacted soils in the above-described "box" beneath your building will improve the efficiency of a vapor extraction system. There generally is no treatment (i.e. reduction in the concentration of the PCE in the air) of the PCE in the air to be discharged, although this is possible if necessary. The installation and operation of a vapor extraction system would also be an advantage for your property if you decided to sell at some point as the new owner cold operate without disruption once the vapor extraction system is installed and concrete is placed over the extraction system trenches in the floor.

The design of a vapor extraction system would require that we collect several soil vapor samples for laboratory analysis to determine the PCE concentrations in the air beneath your building. We would also conduct a test to determine the air flow rate to be expected during the actual vapor extraction system operation. This information would be used to select the vapor extraction system components and to be sure that the emissions from the system are in compliance with WDNR air emission regulations.

A conceptual cost estimate for a vapor extraction system for your building is from $30,000.00 to $35,000.00. There would also be ongoing operating costs including electricity and vapor extraction system monitoring and maintenance.

Drycleaner Environmental Response Fund

As we have discussed, the WDNR's Drycleaner Environmental Response Fund (DERF) has been closed to new applicants since August of 2008. Moraine will assist you in applying for acceptance into the DERF based on the lack of notification provided to you by the WDNR concerning access to the fund prior to 2008. In addition to the costs for soil boring advancement, monitoring well installation and soil vapor extraction system installation discussed above, there

will be additional engineering costs for preparation of the Site Investigation and Remedial Action Reports, ongoing groundwater monitoring and regulatory liaison.

Summary and Closing

Moraine recommends that the following activities be completed at this time:

- Drill the 9 shallow soil borings to determine the lateral extent of the soil impacted with PCE.
- Install two additional groundwater monitoring wells. Analyze groundwater samples from the total of four monitoring wells to further evaluate the groundwater quality and the extent of the groundwater impacts.
- Collect two soil vapor samples from beneath the building for analysis for PCE to obtain design data for the full-scale vapor extraction system.

We will evaluate site conditions after the analysis of this soil and groundwater data and determine the most economical way to proceed toward completing the Site Investigation and moving toward site closure.

We look forward to discussing the Site Investigation activities with you during our meeting in the near future. If you have any immediate questions, please call our office at 377-9060. Thanks.

Sincerely,
Moraine Environmental, Inc.

Thomas G. Ryan, P.E.
Senior Project Engineer

Thomas C. Sweet
President

F://WORD/Mswteh57/5735 Soil and Groundwater Investigation Report

Attachment A

Soil Quality Summary Tables

Table 1a

Soil Quality Results for Tetrachloroethylene

The Residual Contaminant Level (RCL) concentration in soil for the groundwater protection pathway for Tetrachloroethylene for commercial properties is 4.5 micrograms per liter (ug/l). The groundwater pathway RCL concentrations are used to define the extent of soil impacts for listing on the WDNR's Geographic Information System registry.

Soil Boring No.	Sample Date	Sample Depth	Tetrachloroethylene Concentration (ug/l)
B-1	February 21, 2013	2 feet	68,700
B-2	February 21, 2013	6 feet	<25.0
B-3	February 21, 2013	5 feet	63.0 J
B-4	March 18, 2013	3 to 4 feet	5,070
B-4	March 18, 2013	6 feet	11,400
B-5	March 18, 2013	8 inches	7,240
B-6	March 18, 2013	1 foot	17,900
B-6	March 18, 2013	5 feet	4,420
B-7	March 18, 2013	2 feet	6,410
B-7	March 18, 2013	4 feet	717
B-8	March 18, 2013	4 feet	9,020
B-9	March 18, 2013	1 foot	28,300
B-9	March 18, 2013	5 feet	18,300
B-10	March 18, 2013	3 feet	1,090
B-10	March 18, 2013	5 feet	4,250

The "J" Flag means the estimated contaminant concentration is above the adjusted method detection limit and below the adjusted reporting limit.

Table 1b

Soil Quality Results for Tetrachloroethylene

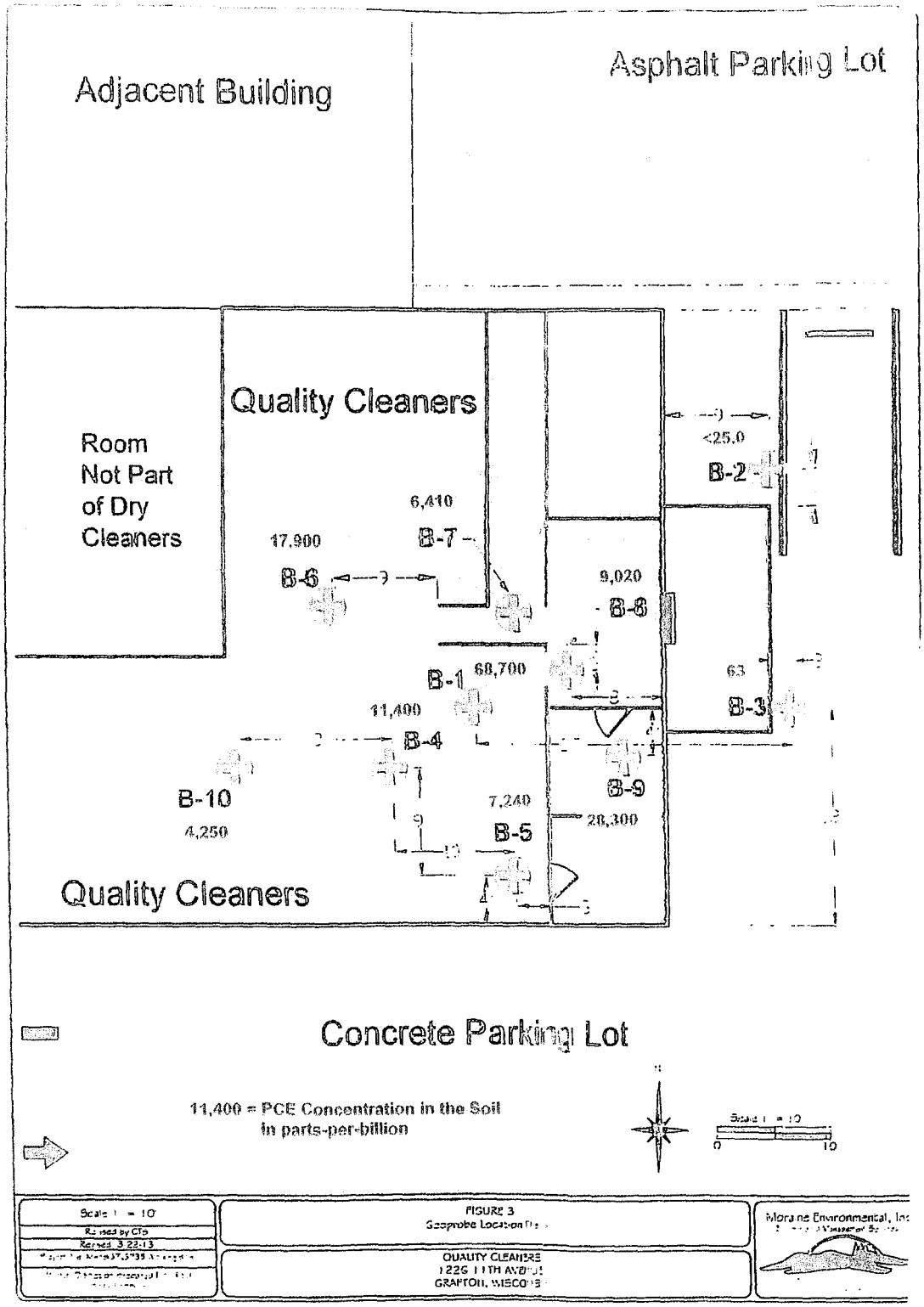
The Residual Contaminant Level (RCL) concentration in soil for the direct contact pathway for Tetrachloroethylene for commercial properties is 30,700 ug/l. The direct contact pathway RCL concentrations are used to define the extent of the Quality Cleaners property which requires an engineered barrier to prevent direct human contact with the impacted soils.

Soil Boring No.	Sample Date	Sample Depth	Tetrachloroethylene Concentration (ug/l)
B-1	February 21, 2013	2 feet	68,700
B-4	March 18, 2013	3 to 4 feet	5,070
B-6	March 18, 2013	1 foot	17,900
B-7	March 18, 2013	2 feet	6,410
B-7	March 18, 2013	4 feet	717
B-8	March 18, 2013	4 feet	9,020
B-9	March 18, 2013	1 foot	28,300
B-10	March 18, 2013	3 feet	1,090

Attachment B

Site Figure Showing PCE

Concentrations in the Soil


Adjacent Building
Asphalt Parking Lot
Quality Cleaners
Room
Not Part
of Dry
Cleaners
<25.0
B-2
6,410
17,900
B-7
B-6
9,020
B-8
B-1
68,700
63
B-3
11,400
B-4
B-10
4,250
B-9
7,240
28,300
B-5
Quality Cleaners
Concrete Parking Lot
11,400 = PCE Concentration in the Soil
in parts-per-billion
Scale 1 = 10
0
10
Scale 1 = 10'
Revised 3-22-13
FIGURE 3
Geoprobe Location Plan
QUALITY CLEANERS
1226 11TH AVENUE
GRAFTON, WISCONSIN
Moraine Environmental, Inc.

Attachment C

Groundwater Quality Summary Table

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	Benzene	Bromo benzene	Bromo chloro methane	Bromodi chloro methane	Bromoform	Bromo methane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride
MW-1	03/25/13	<0.41	<0.82	<0.97	<0.56	<0.94	<0.91	<0.93	<0.83	<0.97	<0.49
MW-2	03/25/13	<8.2	<16.4	<19.4	<11.2	<18.8	<18.2	<18.6	<17.8	<19.4	<9.8
NR 140 Enforcement Standard		**5**	**NSE**	**NSE**	**0.6**	**4.4**	**10**	**NSE**	**NSE**	**NSE**	**5**
NR 140 Preventive Action Limit		*0.5*	*NSE*	*NSE*	*0.06*	*0.44*	*1*	*NSE*	*NSE*	*NSE*	*0.5*

J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.

NSE = No Standard Established

Results in Italics are greater than NR 140 Preventive Action Limit Concentrations

Results in Bold are greater than NR 140 Enforcement Standard Concentrations

Results expressed in units of micrograms per liter (ug/l)

F \Excel \2900\5735 Table 2 - Groundwater VOCs.xls

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	Chloro benzene	Chloroethane	Chloroform	Chloro methane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromo chloro methane	1,2-Dibromethane (EDB)	Dibromo methane
MW-1	03/25/13	<0.41	<0.97	<1.3	<0.24	<0.85	<0.74	<1.7	<0.81	<0.56	<0.60
MW-2	03/25/13	<8.2	<19.4	<26.0	<4.8	<17.0	<14.8	<33.6	<16.2	<11.2	<12 0
NR 140 Enforcement Standard		**NSE**	**400**	**6**	**3**	**NSE**	**NSE**	**0.2**	**60**	**0.05**	**NSE**
NR 140 Preventive Action Limit		*NSE*	*80*	*0.6*	*0.3*	*NSE*	*NSE*	*0.02*	*6*	*0.005*	*NSE*

J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.

NSE = No Standard Established

Results in Italics are greater than NR 140 Preventive Action Limit Concentrations

Results in Bold are greater than NR 140 Enforcement Standard Concentrations

Results expressed in units of micrograms per liter (ug/l)

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	Dichloro difluoro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	cis-1, 2 Dichloro-ethene	trans-1, 2 Dichloro-ethene	1,2-Dichloro propane
MW-1	03/25/13	<0.83	<0.87	<0.95	<0.99	<0.75	<0.36	<0.57	<0.83	<0.89	<0.49
MW-2	03/25/13	<16.6	<17.4	<19.0	<19.8	<15.0	<7.2	<11.4	<16.6	<17.8	<9.8
NR 140 Enforcement Standard		**600**	**1,250**	**75**	**1,000**	**850**	**5**	**7**	**70**	**100**	**5**
NR 140 Preventive Action Limit		*60*	*125*	*15*	*200*	*85*	*0.5*	*0.7*	*7*	*20*	*1*

J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.

NSE = No Standard Established

Results in Italics are greater than NR 140 Preventive Action Limit Concentrations

Results in Bold are greater than NR 140 Enforcement Standard Concentrations

Results expressed in units of micrograms per liter (ug/l)

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	1,3-Dichloro propene	2,2-Dichloro propane	1,1-Dichloro propene	cis-1,3-Dichloro propene	trans-1,3-Dichloro propene	Diisopropyl ether	Ethyl benzene	Hexachloro-1,3-butadiene	Isopropyl benzene (Cumene)
MW-1	03/25/13	<0.61	<0.62	<0.75	<0.20	<0.19	<0.76	<0.54	<0.67	<0.59
MW-2	03/25/13	<12.2	<12.4	<15.0	<4.0	<3.8	<15.2	<10.8	<13.4	<11.8
NR 140 Enforcement Standard		**0.2**	**NSE**	**NSE**	**0.2**	**NSE**	**NSE**	**700**	**NSE**	**NSE**
NR 140 Preventive Action Limit		*0.02*	*NSE*	*NSE*	*0.02*	*NSE*	*NSE*	*140*	*NSE*	*NSE*

J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.

NSE = No Standard Established

Results in Italics are greater than NR 140 Preventive Action Limit Concentrations

Results in Bold are greater than NR 140 Enforcement Standard Concentrations

Results expressed in units of micrograms per liter (ug/l)

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	p-Isopropyl toluene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propyl benzene	Styrene	1,1,1,2-Tetrachloro ethane	1,1,2,2-Tetrachloro ethane	Tetrachloro ethene
MW-1	03/25/13	<0.67	<0.43	<0.61	<0.89	<0.81	<0.86	<0.92	<0.20	32.9
MW-2	03/25/13	<13.4	<8.6	<12.2	<17.8	<16.2	<17.2	<18.4	<4.0	896
NR 140 Enforcement Standard		**NSE**	**5**	**60**	**100**	**NSE**	**100**	**70**	**0.2**	**5**
NR 140 Preventive Action Limit		*NSE*	*0.5*	*12*	*10*	*NSE*	*10*	*7*	*0.02*	*0.5*

J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.

NSE = No Standard Established

Results in Italics are greater than NR 140 Preventive Action Limit Concentrations

Results in Bold are greater than NR 140 Enforcement Standard Concentrations

Results expressed in units of micrograms per liter (ug/l)

Table 2
Groundwater Quality Results - VOC's

Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	Toluene	1,2,3-Trichloro benzene	1,2,4-Trichloro benzene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Trichloro fluoro methane	1,2,3-Trichloro propane
MW-1	03/25/13	0.67 J	<0.74	<0.97	<0.90	<0.42	<0.48	<0.79	<0.99
MW-2	03/25/13	<13.4	<14.8	<19.4	<18.0	<8.4	<9.6	<15.8	<19.8
NR 140 Enforcement Standard		**1,000**	**NSE**	**70**	**200**	**5**	**5**	**NSE**	**60**
NR 140 Preventive Action Limit		*200*	*NSE*	*14*	*40*	*0.5*	*0.5*	*NSE*	*12*
		J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated.							
		NSE = No Standard Established							
		Results in Italics are greater than NR 140 Preventive Action Limit Concentrations							
		Results in Bold are greater than NR 140 Enforcement Standard Concentrations							
		Results expressed in units of micrograms per liter (ug/l)							

Table 2
Groundwater Quality Results - VOC's

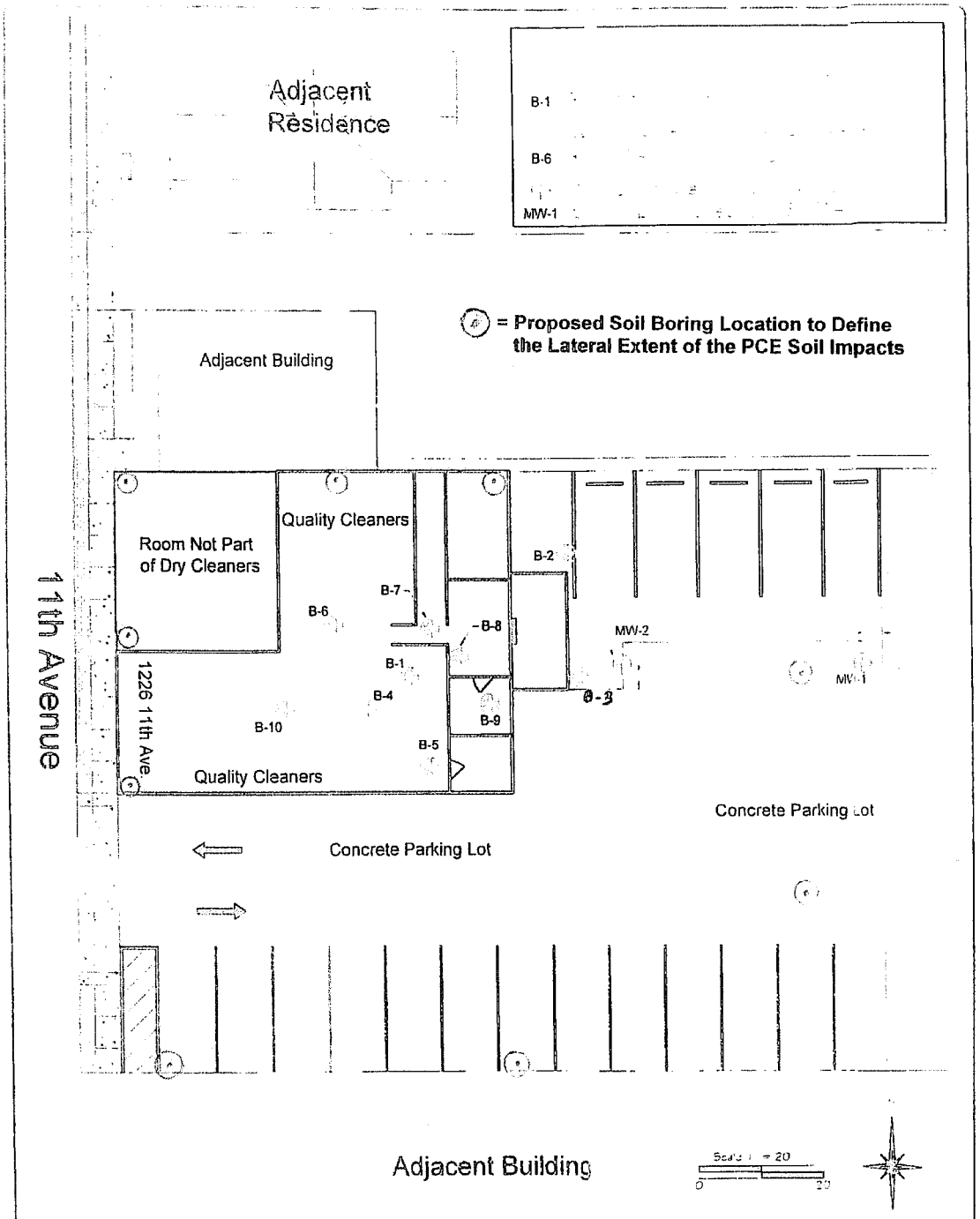
Quality Cleaners
1226-1228 11th Avenue
Grafton, Wisconsin

Sample ID	Date Sampled	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Vinyl chloride	Total Xylenes
MW-1	03/25/13	<0.97	<0.83	<0.18	<2.63
MW-2	03/25/13	<19.4	<16.6	<3.6	<36.0
NR 140 Enforcement Standard		**480**		**0.2**	**10,000**
NR 140 Prevent ve Action Limit		*96*		*0.02*	*1,000*
		J - The analyte has been detected between the Limit of Detection and the Limit of Quantitation and the results are estimated. NSE = No Standard Established Results in Italics are greater than NR 140 Preventive Action Limit Concentrations Results in Bold are greater than NR 140 Enforcement Standard Concentrations Results expressed in units of micrograms per liter (ug/l)			

Attachment D

Site Figure Showing Proposed

Soil Boring Locations


Adjacent Residence
B-1
B-6
MW-1
= Proposed Soil Boring Location to Define the Lateral Extent of the PCE Soil Impacts
Adjacent Building
Quality Cleaners
Room Not Part of Dry Cleaners
B-2
B-7
B-6
B-8
MW-2
B-1
B-4
B-9
B-10
B-5
1226 11th Ave.
Quality Cleaners
Concrete Parking Lot
Concrete Parking Lot
11th Avenue
Adjacent Building
FIGURE 2
SITE PLAN
QUALITY CLEANERS
1225 11TH AVENUE

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Monday, September 11, 2017 1:41 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Laura Buckner (laura@sitzmannlaw.com)
Subject: RE: estate of Gerald Kuehl - Email #2
Attachments: FW: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 V... (3.09 MB); Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 (2.38 MB)

Attached are the vapor/air sampling results from the Kuehl's building and the neighboring 1224 11th Avenue building. WDNR did not require us to do a written report of this, John indicate the results could go in a future Site Investigation Report, when the entire investigation of vapor, soil and groundwater was completed.

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlaplant@releeinc.com

From: Christopher G. Sitzmann [mailto:csitzmann@sitzmannlaw.com]
Sent: Friday, September 08, 2017 12:34 PM
To: Nicole L. LaPlant
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; 'Laura Buckner'
Subject: RE: estate of Gerald Kuehl

Nicole
Thank you so much
Have a great weekend

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street | Appleton, WI 54911
office: (920) 733-3963 | fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, September 08, 2017 12:30 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; Laura Buckner
Subject: RE: estate of Gerald Kuehl

Hi Chris,

Figure 1: Vapor Intrusion Sample Locations, Former Quality Cleaners, Grafton, WI

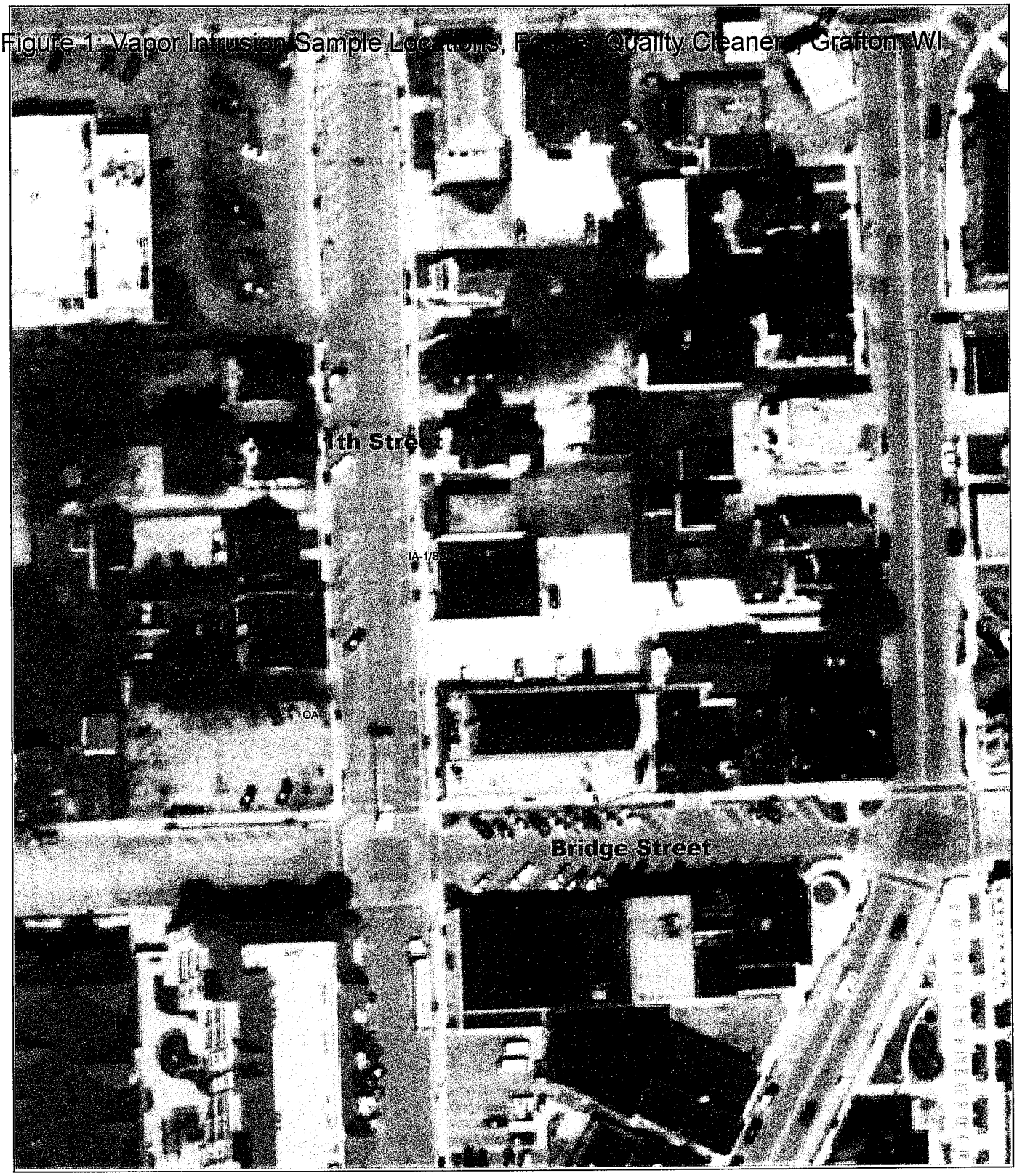


Figure 1 - Vapor Intrusion Sample Locations

SSV-1 = Sub-Slab Sample (8 hour)

IA-1 = Indoor Air Sample (8 hour)

= Approximate Property Boundary

SCALE: 1" = 81'

Ozaukee County
121 W Main St P.O. Box 994
Port Washington WI 53074
262-284-9411

Print Date: 2/3/2014

TABLE 1
SUB-SLAB VAPOR AND AIR ANALYTICAL RESULTS SUMMARY
FORMER QUALITY CLEANERS, 1228 11th AVENUE, GRAFTON, WI

Sample ID	Sample Location	Sample Type	Date Collected	Relevant VOCs (µg/m^3)				
				PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Non-Residential Sub-Slab Vapor Risk Screening Level (VRSL) -- µg/m^3				18,000	880	---	26,000	2,800
Non-Residenital Indoor Air Vapor Action Level (VAL) -- µg/m^3				180	8.8	---	260	28
SSV-1	Hallway entrance to two tenant spaces, occupied by Hair Vision and private hair stylist.	Sub-slab	1/16/2014	**246,000**	3.3	ND	ND	ND
IA-1		Indoor air	1/16/2014	***882***	ND	ND	ND	ND
SSV-2	Near the location of the former dry cleaning machine (vicinity of Boring B1)	Sub-slab	1/16/2014	**7,000,000**	ND	ND	ND	ND
IA-2		Indoor air	1/16/2014	***865***	ND	ND	ND	ND
OA-1	Southwest of Site building, across 11th Street (upwind)	Outdoor air	1/16/2014	1.5	ND	ND	ND	ND

Key:

--- = No screening level established
ND = Not detected above laboratory detection limits
µg/m3 = Micrograms per cubic meter
PCE = Tetrachloroethene
TCE = Trichloroethene
Cis-1,2 DCE = Cis-1,2 Dichloroethene
Trans-1,2 DCE = Trans-1,2 Dichloroethene
138 = Vapor Risk Screening Level (VRSL) exceeded
14.5 = Vapor Action Level (VAL) exceeded

Notes:

1.) Sub-slab samples collected using Vapor Pin.

2.) The Vapor Risk Screening Level (VRSL) was calculated by multiplying the VAL by a dilution factor of 100 for commercial buildings, in accordance with WDNR guidance.

Sub-Slab Vapor Field Sampling Form

Project Name	Former Quality Cleaners	Sample Date	1-16-14
Location/Address	Hallway Outside Hair Vision	Sample ID	SSV-1
Project No.	5446-001	Sample Time	1523-1604
Client/Contact		Canister ID	562
Data Collection Start Date	1-16-14	End Date	1-16-14

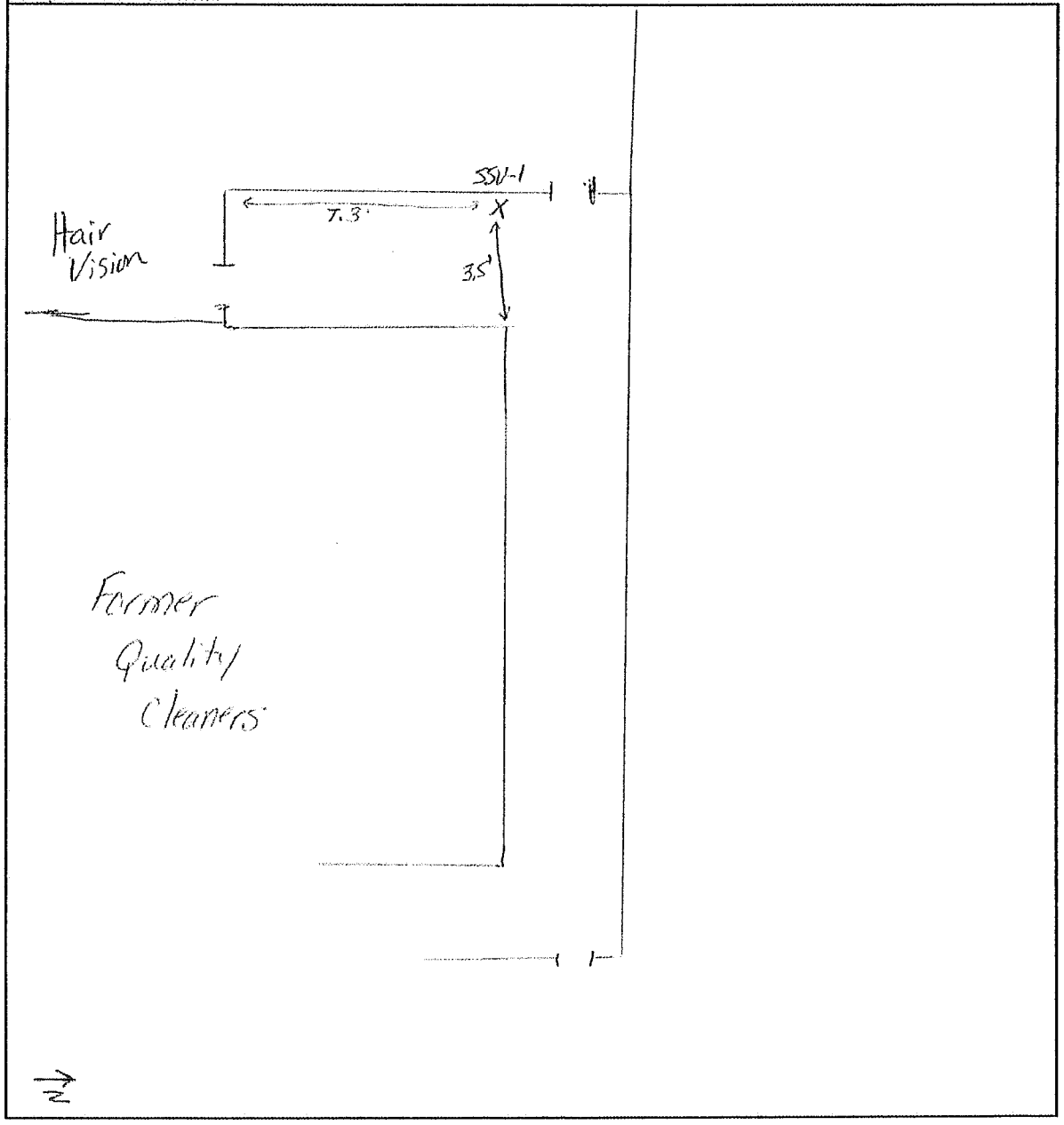
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
1523	-30	S-SW	5-10	32	29.42 in	80 %
1604	-3	S-SW	5-10	32	29.42 in	80 %

Helium Leak Test		Negative Pressure Test
Date/Time Performed:	1-16-14	Date/Time Performed: 1-16-14
Background He Concentration (ppm)	4,000 x 100 ppm	Negative Pressure of at least -15 in. Hg induced on
Shroud He Concentration (%)	99,999 x 100 %	
Sub-Slab Vapor/Soil-Gas He Concentration (post helium insertion)	< 1%	Did pressure hold? (Yes) No
Helium Leak Test Passed: (Yes) No		
Notes		

Project No.: 5446-001
Date: 1-16-14

Sample Location/ID: SSV-1

Sample Locations Sketch:



Indoor Air Sampling Form

Project No.: 5446-001
Project Name: Former Quality Cleaners
Sample Location: Hair Vision
Date: 1-16-14
Field Personnel: DPE
Recorded by: DPE

Weather: Clear
Air Temperature: 23°F
Atmospheric Pressure: 29.46 in

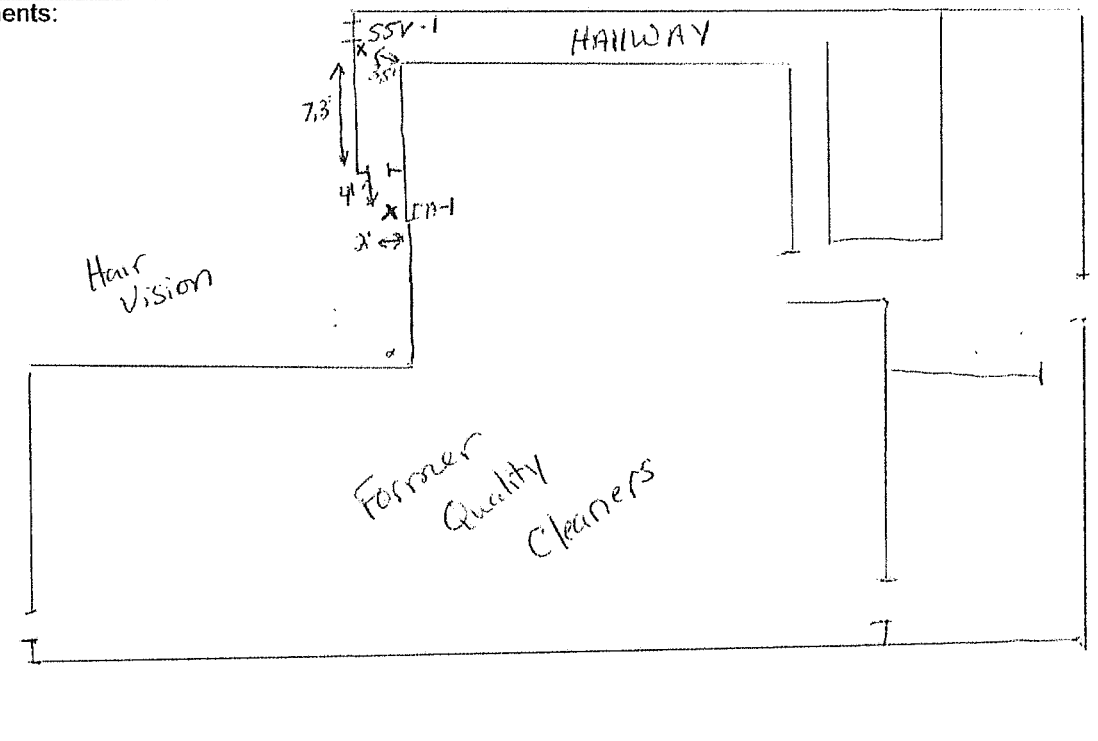
Sample Location Observations

HVAC System Operating (Y/N)?
HVAC System type (gas forced air, fuel oil, hydronic, etc.)?
Chemical Storage Near Sample Location? NO
Windows Open? NO
Occupants Smoking? NO

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
1-16-14	0801	1512	IA-1	682	FC0256		-29	-4

Comments:



Sub-Slab Vapor Field Sampling Form

Project Name	Former Quality Cleaners	Sample Date	1-16-14
Location/Address	1228 11th Avenue	Sample ID	SSV-2
Project No.	5446-001	Sample Time	1542-1622
Client/Contact		Canister ID	23
Data Collection Start Date	1-16-14	End Date	1-16-14

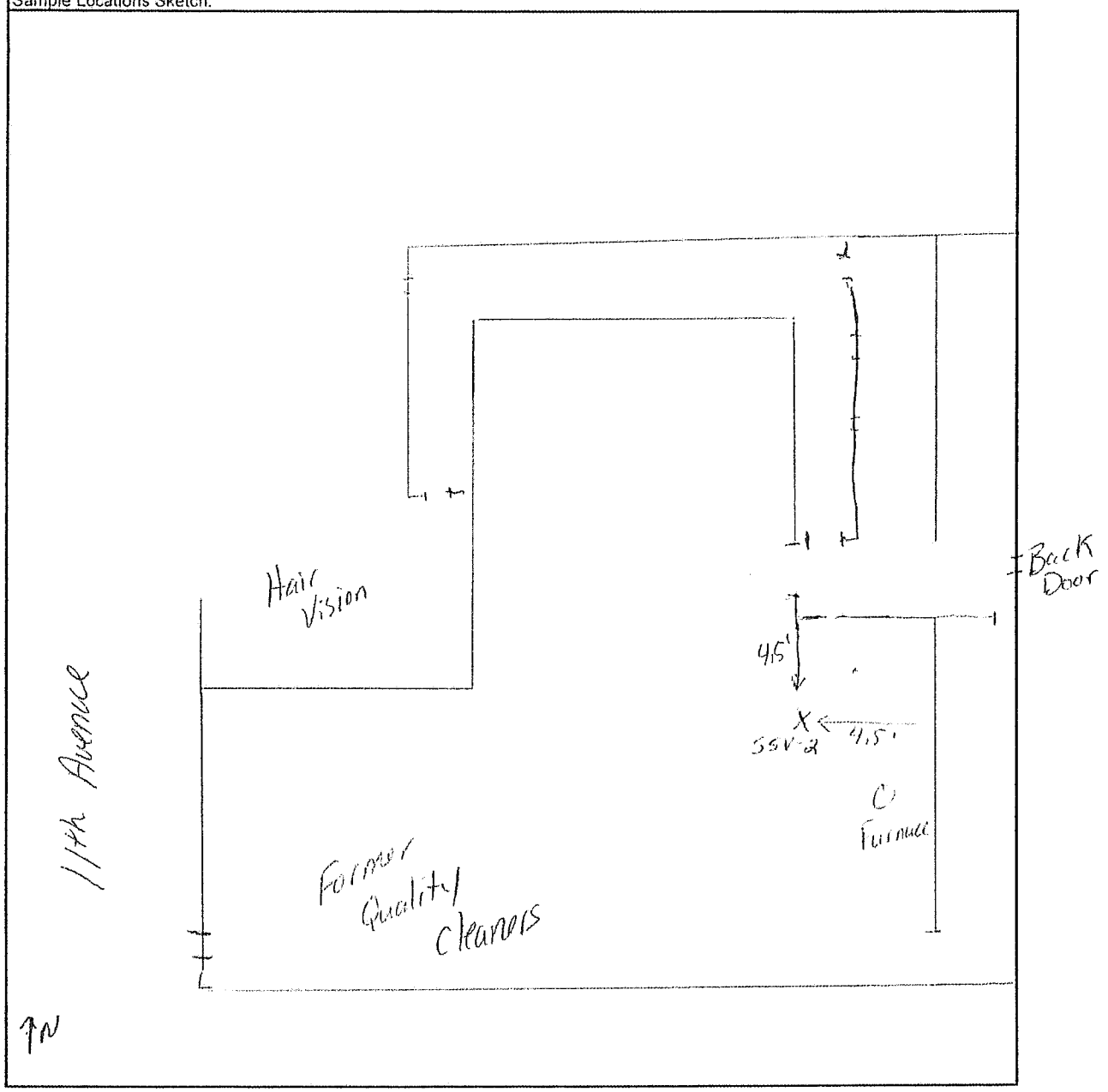
Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
1542	-28	S-SW	5-10	29.42in	32	80
1622	-4	S-SW	5-10	29.42in	32	80

Helium Leak Test		Negative Pressure Test
Date/Time Performed:	1-16-14	Date/Time Performed: 1-16-14
Background He Concentration (ppm)	4,000 x 100	Negative Pressure of at least -15 in. Hg induced on
Shroud He Concentration (%)	99,000 x 100	
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	<1%	Did pressure hold? (Yes) No
Helium Leak Test Passed: (Yes) No		
Notes		

Project No.: 5446-001
Date: 1-16-14

Sample Location/ID: Former Quality Cleaners

Sample Locations Sketch:



Indoor Air Sampling Form

Project No.: 5446-001
Project Name: Former Quality Cleaners
Sample Location: Quality Cleaners
Date: 1-16-14
Field Personnel: DPE
Recorded by: DPE

Weather: Clear
Air Temperature: 23°F
Atmospheric Pressure: 29.46 in

Sample Location Observations

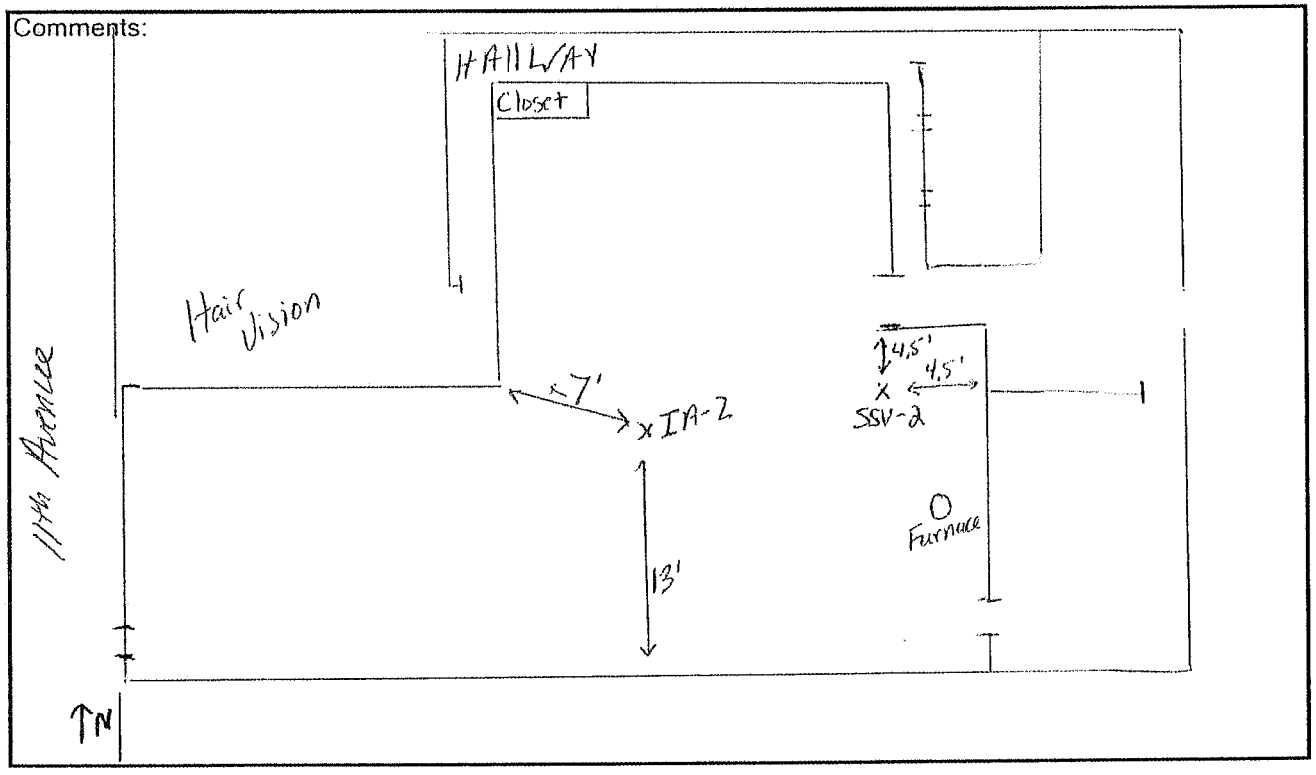
HVAC System Operating (Y/N)?
HVAC System type (gas forced air, fuel oil, hydronic, etc.)?
Chemical Storage Near Sample Location? NO
Windows Open? NO
Occupants Smoking? NO (vacant)

* ODORS from Hair Vision were noted in this area i.e. hair products *

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
1-16-14	0806	1515	IA-2	636	FC0367		-30	-4

Comments:



Outdoor Air Sampling Form

Project No.: 5446-001
Project Name: Former Quality Cleaners
Sample Location: NE Corner of Silk Screen Specialists (Lot)
Date: 1-16-14
Field Personnel: DPE
Recorded by: DPE

Weather: Clear
Air Temperature: 23°F
Atmospheric Pressure: 29.46 in
Wind Direction: S/SW 10mph

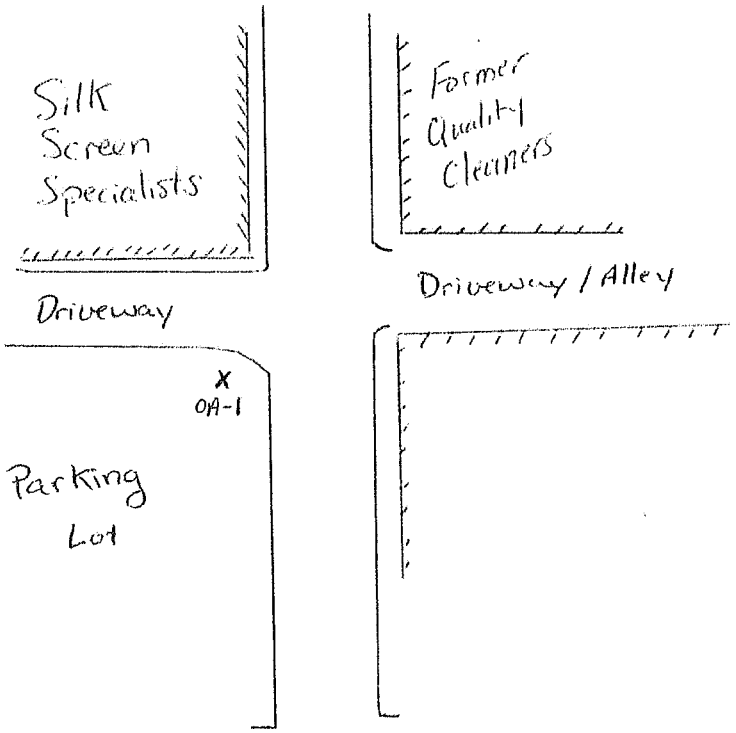
Description of Sample Location

NE Corner of Silk Screen Specialists parking lot
-across the street to the West

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
1-16-14	0834	1518	OA-1	798	FC0224		-30	-4.5

Comments:



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(612)607-1700

February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Dear Nicole LaPlant:
Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10255522001	**SSV-1**	Air	01/16/14 16:04	01/21/14 13:10
10255522002	**SSV-2**	Air	01/16/14 16:22	01/21/14 13:10

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10255522001	**SSV-1**	TO-15	AH2	5
10255522002	**SSV-2**	TO-15	AH2	5

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ANALYTICAL RESULTS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Sample: SSV-1 **Lab ID: 10255522001** Collected: 01/16/14 16:04 Received: 01/21/14 13:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		02/01/14 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		02/01/14 05:10	156-60-5	
Tetrachloroethene	**246000**	ug/m3	1270	1843.2		02/01/14 18:34	127-18-4	A3
Trichloroethene	**3.3**	ug/m3	0.79	1.44		02/01/14 05:10	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		02/01/14 05:10	75-01-4	

Sample: SSV-2 **Lab ID: 10255522002** Collected: 01/16/14 16:22 Received: 01/21/14 13:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	6180	7628.8		02/01/14 13:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	6180	7628.8		02/01/14 13:11	156-60-5	
Tetrachloroethene	**7000000**	ug/m3	5260	7628.8		02/01/14 13:11	127-18-4	E
Trichloroethene	ND	ug/m3	4200	7628.8		02/01/14 13:11	79-01-6	
Vinyl chloride	ND	ug/m3	1980	7628.8		02/01/14 13:11	75-01-4	

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QUALITY CONTROL DATA

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

QC Batch: AIR/19326 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255522001, 10255522002

METHOD BLANK: 1618172 Matrix: Air
Associated Lab Samples: 10255522001, 10255522002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/14 16:03	
Tetrachloroethene	ug/m3	ND	0.69	01/31/14 16:03	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/14 16:03	
Trichloroethene	ug/m3	ND	0.55	01/31/14 16:03	
Vinyl chloride	ug/m3	ND	0.26	01/31/14 16:03	

LABORATORY CONTROL SAMPLE: 1618173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	48.6	121	71-135	
Tetrachloroethene	ug/m3	69	83.1	120	69-136	
trans-1,2-Dichloroethene	ug/m3	40.3	45.6	113	70-131	
Trichloroethene	ug/m3	54.6	66.8	122	70-135	
Vinyl chloride	ug/m3	26	29.3	113	69-132	

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QUALIFIERS

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

SAMPLE QUALIFIERS

Sample: 10255522002

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quality Cleane
Pace Project No.: 10255522

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10255522001	**SSV-1**	TO-15	AIR/19326		
10255522002	**SSV-2**	TO-15	AIR/19326		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1025522

18376

Page: 1 of 1

Section A Required Client Information:

Company: Robert E. Lee & Associates
Address: 1250 Centennial Centre Blvd
Hobart, WI 54155
Email To: nlaplant@releeinc.com
Phone: 920-662-9641 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Nicole LaPlant
Copy To:
Purchase Order No.:
Project Name: Premier Quality Cleaners
Project Number: 5446-001

Section C Invoice Information:

Attention: Nicole LaPlant
Company Name: Robert E. Lee & Associates, Inc
Address: 1250 Centennial Centre Blvd
Pace Quote Reference:
Pace Project Manager/Sales Rep: Carol Lynne Trust
Pace Profile #:

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

Location of Sampling by State: WI

Reporting Units: ug/m³ ✓ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other ___

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 #	Section D Required Client Information — AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SSV-1	GLC		1-16-14	1523	1-16-14	1604	-30	-3	X562	X09485								X		001
2	SSV-2	GLC		1-16-14	1543	1-16-14	1622	-28	-4	XX23	X09355								X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	1-16-14	2000	[signature]	1-21-14	13:10

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: [signature] (Dan Eichstaedt) 1-16-14

SAMPLE CONDITIONS

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

Comments:

5 compounds only
-PCE, TCE, cis-DCE
trans-DCE, VC

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Robert C. Lee

Project #: WO#: 10255522

10255522

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

Tracking Number: 5753 4197 5150

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 ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☐ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72387080 ☑ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 1-21-14

Type of ice Received ☐ Blue ☐ Wet ☐ None

Comments:

Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air Can				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: 2 Air Can

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SSV-1	0562	0948			
SSV-2	0023	0935			

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 1/22/14

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)

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Minneapolis, MN 55414
(612)607-1700

February 03, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Dear Nicole LaPlant:
Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10255520001	IA-1	Air	01/16/14 15:12	01/21/14 13:10
10255520002	IA-2	Air	01/16/14 15:15	01/21/14 13:10
10255520003	OA-1	Air	01/16/14 15:18	01/21/14 13:10

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SAMPLE ANALYTE COUNT

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10255520001	**IA-1**	TO-15	DR1	5
10255520002	**IA-2**	TO-15	AH2	5
10255520003	**OA-1**	TO-15	DR1	5

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ANALYTICAL RESULTS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Sample: IA-1 **Lab ID: 10255520001** Collected: 01/16/14 15:12 Received: 01/21/14 13:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		01/31/14 00:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		01/31/14 00:20	156-60-5	
Tetrachloroethene	**882**	ug/m3	22.2	32.2		01/31/14 16:06	127-18-4	
Trichloroethene	ND	ug/m3	0.89	1.61		01/31/14 00:20	79-01-6	
Vinyl chloride	ND	ug/m3	0.42	1.61		01/31/14 00:20	75-01-4	

Sample: IA-2 **Lab ID: 10255520002** Collected: 01/16/14 15:15 Received: 01/21/14 13:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	25.1	31		02/01/14 03:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	25.1	31		02/01/14 03:38	156-60-5	
Tetrachloroethene	**865**	ug/m3	21.4	31		02/01/14 03:38	127-18-4	
Trichloroethene	ND	ug/m3	17.0	31		02/01/14 03:38	79-01-6	
Vinyl chloride	ND	ug/m3	8.1	31		02/01/14 03:38	75-01-4	

Sample: OA-1 **Lab ID: 10255520003** Collected: 01/16/14 15:18 Received: 01/21/14 13:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		01/30/14 23:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		01/30/14 23:18	156-60-5	
Tetrachloroethene	**1.5**	ug/m3	1.1	1.55		01/30/14 23:18	127-18-4	
Trichloroethene	ND	ug/m3	0.85	1.55		01/31/14 15:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		01/30/14 23:18	75-01-4	

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QUALITY CONTROL DATA

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

QC Batch: AIR/19314 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520001, 10255520003

METHOD BLANK: 1617456 Matrix: Air
Associated Lab Samples: 10255520001, 10255520003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/30/14 12:33	
Tetrachloroethene	ug/m3	ND	0.69	01/30/14 12:33	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/30/14 12:33	
Trichloroethene	ug/m3	ND	0.55	01/30/14 12:33	
Vinyl chloride	ug/m3	ND	0.26	01/30/14 12:33	

LABORATORY CONTROL SAMPLE: 1617457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	39.0	97	71-135	
Tetrachloroethene	ug/m3	69	80.0	116	69-136	
trans-1,2-Dichloroethene	ug/m3	40.3	37.1	92	70-131	
Trichloroethene	ug/m3	54.6	52.5	96	70-135	
Vinyl chloride	ug/m3	26	24.4	94	69-132	

SAMPLE DUPLICATE: 1617845

Parameter	Units	10255499001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	30.0	30.0	.2	25	
Vinyl chloride	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

QC Batch: AIR/19326
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10255520002

METHOD BLANK: 1618172
Matrix: Air
Associated Lab Samples: 10255520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/14 16:03	
Tetrachloroethene	ug/m3	ND	0.69	01/31/14 16:03	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/14 16:03	
Trichloroethene	ug/m3	ND	0.55	01/31/14 16:03	
Vinyl chloride	ug/m3	ND	0.26	01/31/14 16:03	

LABORATORY CONTROL SAMPLE: 1618173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	48.6	121	71-135	
Tetrachloroethene	ug/m3	69	83.1	120	69-136	
trans-1,2-Dichloroethene	ug/m3	40.3	45.6	113	70-131	
Trichloroethene	ug/m3	54.6	66.8	122	70-135	
Vinyl chloride	ug/m3	26	29.3	113	69-132	

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QUALIFIERS

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5446-001 Former Quailty Cleane
Pace Project No.: 10255520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10255520001	**IA-1**	TO-15	AIR/19314		
10255520002	**IA-2**	TO-15	AIR/19326		
10255520003	**OA-1**	TO-15	AIR/19314		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1025520

18376

Page: 1 of 1

Section A Required Client Information:

Company: Robert E. Lee & Associates
Address: 1250 Centennial Centre Blvd
Hobart, WI 54155
Email To: nlaplante@releeinc.com
Phone: 920-662-9691 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Nicole LaPlant
Copy To:
Purchase Order No.:
Project Name: Former Quality Cleaners
Project Number: 5446-001

Section C Invoice Information:

Attention: Nicole LaPlant
Company Name: Robert E. Lee & Associates, Inc
Address: 1250 Centennial Centre Blvd
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trost
Pace Profile #:

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

Location of Sampling by State: WI

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

Report Level: II. ___ III. ___ IV. ___ Other ___

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	IA-1	6LC		1-16-14	0801	1-16-14	1512	-29	-4	X6820	X02556									X	001
2	IA-2	6LC		1-16-14	0806	1-16-14	1515	-30	-4	X6536	X03067									X	002
3	OA-1	6LC		1-16-14	0834	1-16-14	1518	-30	-4.5	X7988	X02424									X	003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

5 compounds only
-PCE, TCE, cis-DCE
trans-DCE, VC

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	1-16-14	2000	Pace	1/21/14	13:10

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

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dan Eichstedt

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1-16-14

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Robert E Lee

Project #: WO#: 10255520

10255520

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 5753 4197 5161

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 ☐ Other: **Temp Blank rec:** ☐ Yes ☐ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ 72337080 ☐ B88A9132521491 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** CM 1-21-14

Type of ice Received ☐ Blue ☐ Wet ☐ None

Comments:

Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: 3 Air Can, 3 Flow Controllers

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
IA-1	682	0256			
IA-2	636	0369			
OA-1	798	0224			

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: CM **Date:** 1/22/14

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) .

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Friday, May 30, 2014 2:38 PM
To: Johnm.Feeney@wisconsin.gov
Subject: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212
Attachments: VI analytical results table.pdf; VI lab report 5_27_14.pdf; VI sampling field sheets.pdf; Figure 1 Vapor Intrustion Sampling Locations.pdf

Hi John,

Attached for your review and opinion of the next steps is the VI data collected from the building adjacent (1224 11th Avenue) to the Quality Cleaners building. I will be calling the off-site property owner this afternoon as they are inquiring. I will let them know that a letter will be sent indicating the next step for their property after we talk.

I'm unsure if you want another sample collected to confirm or if this suffices?? In our opinion, based on this result a mitigation system for this building does not appear necessary. I expect once the mitigation system gets installed in the Quality Cleaners building the VI pathway in this building will remain protected.

Thanks for all your help. Look forward to hearing from you.

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

TABLE 1
SUB-SLAB VAPOR AND AIR ANALYTICAL RESULTS SUMMARY
ADJACENT RESIDENTIAL/COMMERCIAL PROPERTY TO FORMER QUALITY CLEANERS, GRAFTON, WI

Sample ID	Sample Location	Sample Type	Date Collected	Relevant VOCs (µg/m³)				
				PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Residential Sub-Slab Vapor Risk Screening Level (VRSL) -- µg/m³				420	21	---	630	16
Residenital Indoor Air Vapor Action Level (VAL) -- µg/m³				42	2.1	---	63	1.6
SSV-3	1224 11th Avenue	Sub-slab	4/9/2014	375	ND	ND	ND	ND
IA-3		Indoor air		3.4	ND	ND	ND	ND
OA-2	Parking lot, east of building along east property boundary (upwind)	Outdoor air		1	ND	ND	ND	ND

Key:

--- = No screening level established
ND = Not detected above laboratory detection limits
µg/m3 = Micrograms per cubic meter
PCE = Tetrachloroethene
TCE = Trichloroethene
Cis-1,2 DCE = Cis-1,2 Dichloroethene
Trans-1,2 DCE = Trans-1,2 Dichloroethene
138 = Vapor Risk Screening Level (VRSL) exceeded

Notes:

1.) Sub-slab samples collected using Vapor Pin.

2.) The Vapor Risk Screening Level (VRSL) was calculated by multiplying the VAL by a dilution factor of 10 for residential buildings, in accordance with WDNR guidance.

TABLE 1
SUB-SLAB VAPOR AND AIR ANALYTICAL RESULTS SUMMARY
FORMER QUALITY CLEANERS, 1228 11th AVENUE, GRAFTON, WI

Sample ID	Sample Location	Sample Type	Date Collected	Relevant VOCs (µg/m³)				
				PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Non-Residential Sub-Slab Vapor Risk Screening Level (VRSL) -- µg/m³				1,800	88	---	2,600	280
Non-Residenital Indoor Air Vapor Action Level (VAL) -- µg/m³				180	8.8	---	260	28
SSV-1	Hallway entrance to two tenant spaces, occupied by Hair Vision and private hair stylist.	Sub-slab	1/16/2014	**246,000**	3.3	ND	ND	ND
IA-1		Indoor air	1/16/2014	*882*	ND	ND	ND	ND
SSV-2	Near the location of the former dry cleaning machine (vicinity of Boring B1)	Sub-slab	1/16/2014	**7,000,000**	ND	ND	ND	ND
IA-2		Indoor air	1/16/2014	*865*	ND	ND	ND	ND
OA-1	Southwest of Site building, across 11th Street (upwind)	Outdoor air	1/16/2014	1.5	ND	ND	ND	ND

Key:

--- = No screening level established
ND = Not detected above laboratory detection limits
µg/m3 = Micrograms per cubic meter
PCE = Tetrachloroethene
TCE = Trichloroethene
Cis-1,2 DCE = Cis-1,2 Dichloroethene
Trans-1,2 DCE = Trans-1,2 Dichloroethene
138 = Vapor Risk Screening Level (VRSL) exceeded

14.5 = Vapor Action Level (VAL) exceeded

Notes:

1.) Sub-slab samples collected using Vapor Pin

2.) The Vapor Risk Screening Level (VRSL) was calculated by multiplying the VAL by a dilution factor of 10 for small commercial buildings, in accordance with WDNR guidance.

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

May 27, 2014

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Dear Nicole LaPlant:
Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #: Pace
Georgia Certification #: 959
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia TO-15 Approval
West Virginia DHHR #:9952C

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SAMPLE SUMMARY

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10263141001	OA-2	Air	04/09/14 14:20	04/11/14 13:05
10263141002	IA-3	Air	04/09/14 15:10	04/11/14 13:05
10263141003	SSV-3	Air	04/09/14 16:15	04/11/14 13:05

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SAMPLE ANALYTE COUNT

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10263141001	**OA-2**	TO-15	DL1	5
10263141002	**IA-3**	TO-15	DL1	5
10263141003	**SSV-3**	TO-15	DL1	5

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ANALYTICAL RESULTS

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Sample: OA-2 Lab ID: **10263141001** Collected: 04/09/14 14:20 Received: 04/11/14 13:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		04/29/14 21:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		04/29/14 21:15	156-60-5	
Tetrachloroethene	**1.0**	ug/m3	0.99	1.44		04/29/14 21:15	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		04/29/14 21:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		04/29/14 21:15	75-01-4	

Sample: IA-3 Lab ID: **10263141002** Collected: 04/09/14 15:10 Received: 04/11/14 13:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		04/29/14 21:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		04/29/14 21:38	156-60-5	
Tetrachloroethene	**3.4**	ug/m3	1.0	1.49		04/29/14 21:38	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		04/29/14 21:38	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		04/29/14 21:38	75-01-4	

Sample: SSV-3 Lab ID: **10263141003** Collected: 04/09/14 16:15 Received: 04/11/14 13:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		04/29/14 22:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		04/29/14 22:00	156-60-5	
Tetrachloroethene	**375**	ug/m3	1.1	1.55		04/29/14 22:00	127-18-4	E
Trichloroethene	ND	ug/m3	0.85	1.55		04/29/14 22:00	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		04/29/14 22:00	75-01-4	

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QUALITY CONTROL DATA

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

QC Batch: AIR/20100 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10263141001, 10263141002, 10263141003

METHOD BLANK: 1667488 Matrix: Air
Associated Lab Samples: 10263141001, 10263141002, 10263141003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/29/14 10:27	
Tetrachloroethene	ug/m3	ND	0.69	04/29/14 10:27	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/29/14 10:27	
Trichloroethene	ug/m3	ND	0.55	04/29/14 10:27	
Vinyl chloride	ug/m3	ND	0.26	04/29/14 10:27	

LABORATORY CONTROL SAMPLE: 1667489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	35.1	87	71-135	
Tetrachloroethene	ug/m3	69	57.2	83	69-136	
trans-1,2-Dichloroethene	ug/m3	40.3	34.8	86	70-131	
Trichloroethene	ug/m3	54.6	45.9	84	70-135	
Vinyl chloride	ug/m3	26	25.4	98	69-132	

SAMPLE DUPLICATE: 1667988

Parameter	Units	10263437003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3		ND			
trans-1,2-Dichloroethene	ug/m3		ND			
Trichloroethene	ug/m3	4.3	4.3	.04	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

Pace Analytical Services, Inc.
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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: S446-001 Former Quality Cleane
Pace Project No.: 10263141

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10263141001	**OA-2**	TO-15	AIR/20100		
10263141002	**IA-3**	TO-15	AIR/20100		
10263141003	**SSV-3**	TO-15	AIR/20100		

10L6171

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

12958 | Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Robert E. Lee & Associates, Inc	Report To: Nicole LaPlant	Attention: Nicole LaPlant
Address: 125 Centennial Centre Blvd	Copy To:	Company Name: Robert E. Lee & Associates, Inc.
Email To:	Purchase Order No.:	Address: 125 Centennial Centre Blvd
Phone: Fax:	Project Name: Former Quality Cleaners	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 5946-001	Pace Project Manager/Sales Rep: Carolyn Trost
		Pace Profile #:

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

Location of Sampling by State:

Reporting Units: µg/m³ | mg/m³ | PPBV | PPMV | Other

Report Level: II. | III. | IV. | Other

ITEM #	Section D Required Client Information / AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / GRAB DATE	COLLECTED COMPOSITE START / GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	OA-2	AIR		4-8-14	1426	4-9-14	1420	-27.5	-1.0	2391	X0320								X		001
2	IA-3	AIR		4-8-14	1612	4-9-14	1610	-28	-3.5	2106	102666								X		002
3	SSV-3	AIR		4-9-14	1553	4-9-14	1615	-30	-4	1575	X0951								X		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible] (REL)	4-10-14	1426	[illegible] Pace	4/11/14	1305 (1305)

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dan Fickstead

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 4-9-14

Comments:

TCLS ShortList Only

-PCE, TCE, cis-DCE

trans-DCE, VC

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28DEC2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Robert E Lee & Associates

Project #: WO#: 10263141

10263141

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7949 3859 9055

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 ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): **Corrected Temp (°C):** **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** **Date & Initials of Person Examining Contents:** EZ 4/11/14

Type of ice Received ☐ Blue ☐ Wet ☒ None

Comments:

Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: AIR can				11.
Sample Labels Match COC?	☒ Yes	☒ No	☐ N/A	12. COC says OA-2 can tag reads OA-3

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
OA-2	2391		0320		
IA 3	2106		0266		
SSU-3	1575		0951		

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: C Date: 4/14/14

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)

Sub-Slab Vapor Field Sampling Form

Project Name	5446-001 (Quality Cleaners)	Sample Date	4-9-14
Location/Address	1224 11th Ave	Sample ID	SV-3
Project No.	5446-001	Sample Time	1633 -
Client/Contact		Canister ID	1575
Data Collection Start Date	4-9-14	End Date	4-9-14

Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer inches	Relative Humidity %
1533	-30	S	15	53	29.84	45
1615	-4					

Helium Leak Test		Negative Pressure Test
Date/Time Performed: 4-9-14		Date/Time Performed: 4-9-14
Background He Concentration (ppm) 10x1		Negative Pressure of at least -15 in. Hg induced on sampling train: (Yes) No
Shroud He Concentration (%) 436,000 x1		
Sub-Slab Vapor/Soill-Gas He Concentration (post helium insertion)	< 6000x1	Did pressure hold? (Yes) No
Helium Leak Test Passed: (Yes) No		
Notes		

*Radon measured in on IM-3

* Under Carpet

FC0951

Indoor Air Sampling Form

IA-3

Project No.:	5446-001	Weather:	mostly cloudy
Project Name:	Former Quality Cleaners	Air Temperature:	55°
Sample Location:	1224 11th Avenue	Atmospheric Pressure:	
Date:	4-8-14		
Field Personnel:	NLL / DAW		
Recorded by:	NLL / DAW		

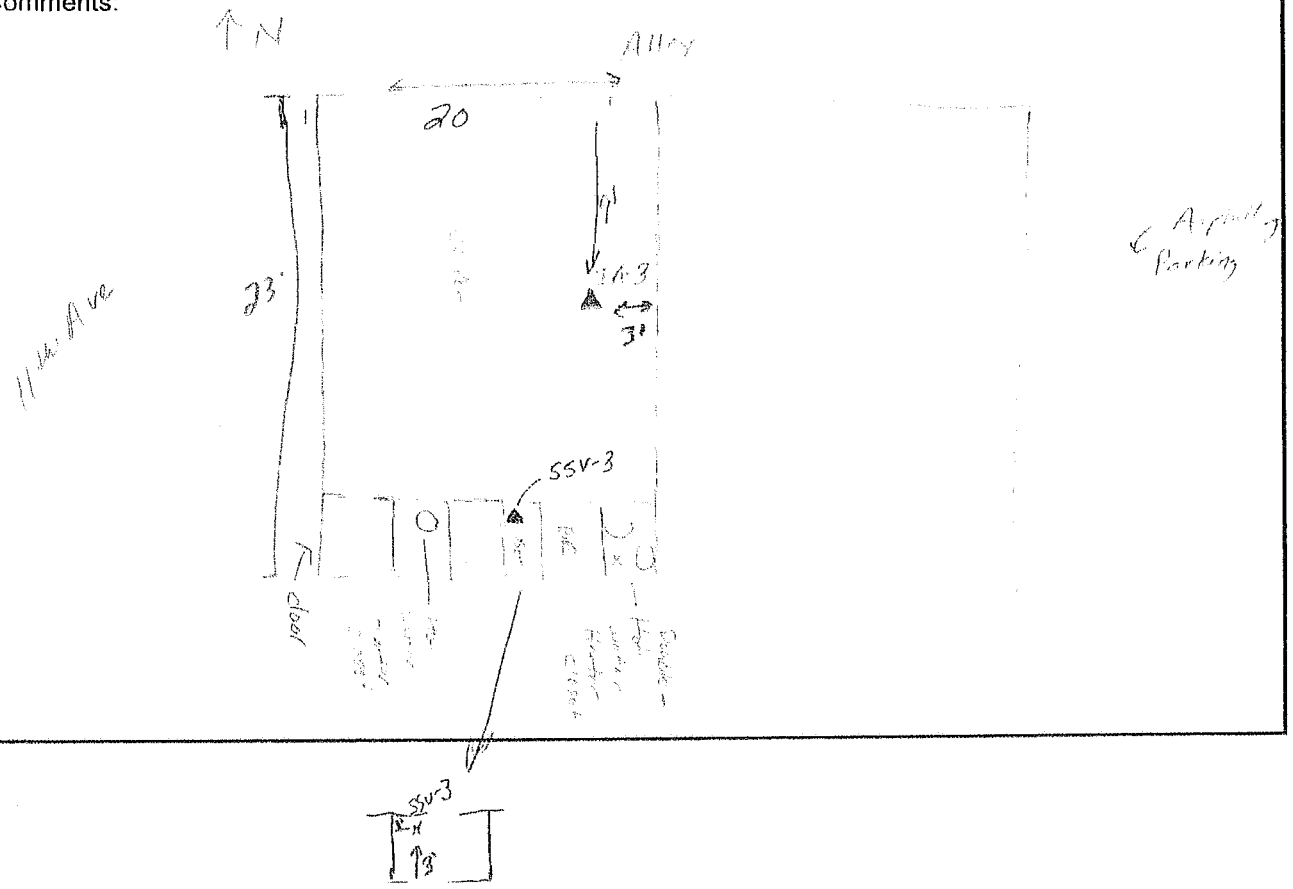
Sample Location Observations

HVAC System Operating (Y/N)?
HVAC System type (gas forced air, fuel oil, hydronic, etc.)? electric
Chemical Storage Near Sample Location? No
Windows Open? No
Occupants Smoking? unoccupied area

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
4-8-14	16:12		IA-3	2106	FC0266	-	-28	
4-9-14		1570						-3.5

Comments:



Outdoor Air Sampling Form

OA-2

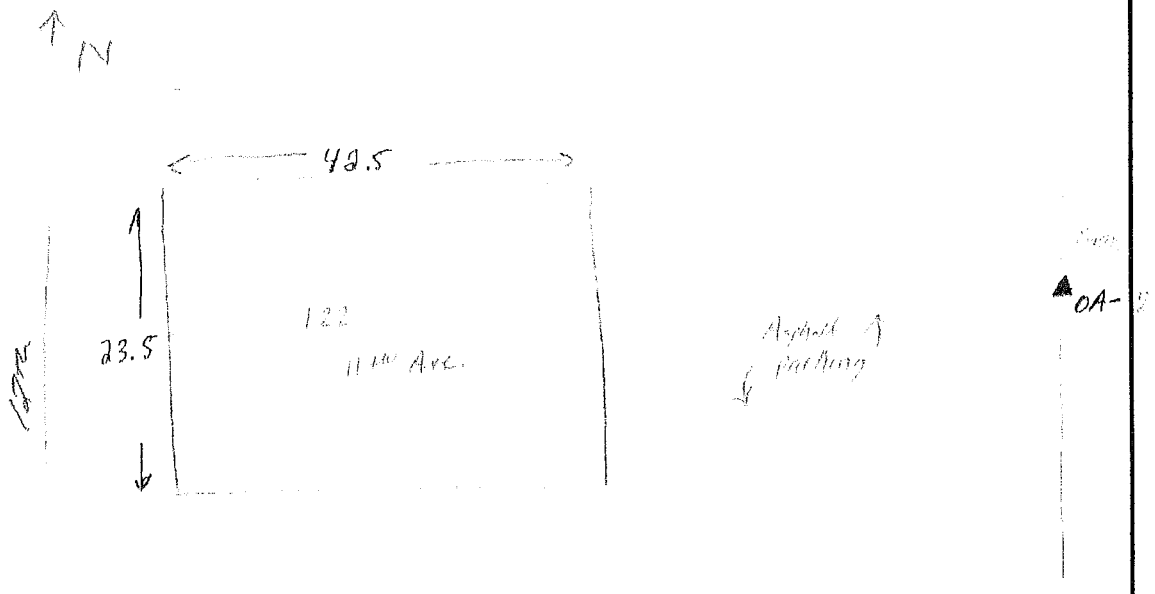
Project No.:	5446-001	Weather:	mostly clouds, chance of rain
Project Name:	Former Quality Cleaners	Air Temperature:	55°
Sample Location:		Atmospheric Pressure:	
Date:	4-8-19	Wind Direction	NE
Field Personnel:	MH / Dan		
Recorded by:	MH / Dan		

Description of Sample Location

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
4-8-19	16:26		OA-2	2391	FC0320		-27.5	
4-9-19		14:20						-1.0

Comments:



* Final Vacuum had read -6 until closed w/ Boot Top caps

Figure 1: Vapor Intrusion Sample Locations, Former Quality Cleaners, Grafton, WI

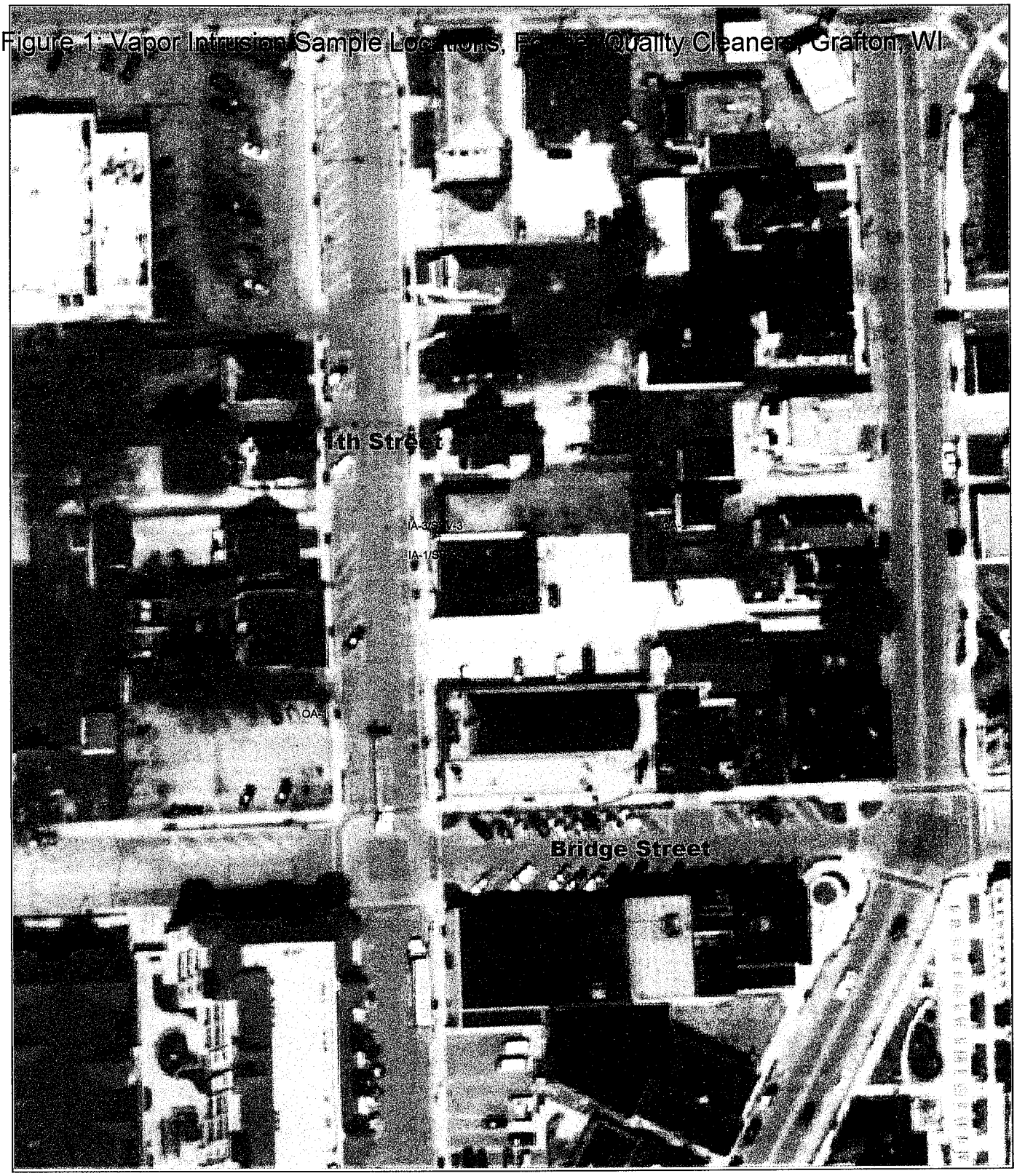


Figure 1: Vapor Intrusion Sample Locations

SSV-1 = Sub-Slab Sample

IA-1 = Indoor Air Sample

Approximate Property Boundary

DISCLAIMER: Ozaukee County does not guarantee the accuracy of the material contained here in or is not responsible for any misrepresentation of this information or its derivatives.

SCALE: 1" = 81'

Ozaukee County
121 W Main St P.O. Box 994
Port Washington WI 53074
262-284-9411

Print Date: 2/3/2014

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Monday, September 11, 2017 1:41 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Laura Buckner (laura@sitzmannlaw.com)
Subject: RE: estate of Gerald Kuehl - email #3
Attachments: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 VA... (143 KB); RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 (148 KB); Maintenance program report (675 KB); FW: 1226 11th ave Grafton WI BEERS 02-46-560212 (1.84 MB)

Attached is the an email from WDNR stating mitigation is needed in the Kuehl building, and reports from Radon Abatement documenting the system install, and maintenance of the system required every 6 months.

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlaplant@releeinc.com

From: Christopher G. Sitzmann [mailto:csitzmann@sitzmannlaw.com]
Sent: Friday, September 08, 2017 12:34 PM
To: Nicole L. LaPlant
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; 'Laura Buckner'
Subject: RE: estate of Gerald Kuehl

Nicole
Thank you so much
Have a great weekend

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street | Appleton, WI 54911
office: (920) 733-3963 | fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, September 08, 2017 12:30 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; Laura Buckner
Subject: RE: estate of Gerald Kuehl

Laura Buckner

From: Feeney, John M - DNR <JohnM.Feeney@wisconsin.gov>
Sent: Thursday, February 06, 2014 8:44 AM
To: Nicole L. LaPlant
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 VAPOR INTRUSION
Attachments: QualityCleaners2(b).docx

Hi Nicole. Here is a draft letter that you asked for. I won't be able to put it in the mail until Monday. I don't need an interim report on vapor testing at this point since you sent me the email.

John

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Wednesday, February 05, 2014 9:45 AM
To: Feeney, John M - DNR
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 VAPOR INTRUSION

Hi John,

Thank you for your assistance. I appreciate it. Will you be sending a letter to the RP indicating that WDNR will require the mitigation system for the building? I think it would be helpful to keep things moving. Mr. Kuehl does not have email, so I can't forward him your email. In addition, his wife passed away about 3 weeks ago.

In regards to your previous comment about meeting NR716 reporting requirements, I can either send you a letter documenting just the VI work thus far or include it in the Site Investigation Report when soil and groundwater sampling is conducted. At the moment, I am uncertain when the soil borings and monitoring wells will be installed. I will need to discuss that with Mr. Kuehl to gain an understanding of his financial status. I believe the first priority for him now will be to get the mitigation system installed.

After further thought, it may be best for us to send in a VI results report sooner instead of later. Would you agree?

Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Tuesday, February 04, 2014 2:29 PM
To: Nicole L. LaPlant
Cc: Evans, Elizabeth - DHS; Ryan, Nancy D - DNR
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212 VAPOR INTRUSION

Nicole, based on the results you sent me, the WDNR will require a mitigation system for the building. Also your client is required to notify the occupants of the building. Please talk to Liz Evans at the DHS before you do that for specific language and support, and any other short term health based requirements that she might have. Her number is 608-266-3393.

http://dnr.wi.gov/files/PDF/pubs/rr/RR934.pdf

John M Feeney, PG #750
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
Plymouth Service Center
920-893-8523
johnm.feeney@wisconsin.gov

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From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Tuesday, February 04, 2014 1:33 PM
To: Feeney, John M - DNR
Subject: FW: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi John,

Attached is the VI data for your review and opinion of the next steps. As I mentioned, I have notified the RP of the results and indicated I would forward you the data for your review. The two building occupants need notification yet; however, in other sites it has been handled differently each time. The WDNR PM has notified occupants, the DHS has notified them, as well as a follow up from us by letter. For us to send a letter or make verbal contact, I will need to provide the DHS contact information.

Thanks for all your help. Look forward to hearing from you.

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Nicole L. LaPlant
Sent: Thursday, September 26, 2013 3:28 PM
To: 'Feeney, John M - DNR'
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Yes, you are correct. It is my understanding from the correspondence we have seen, that it is not DERF eligible.

Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
4664 Golden Pond Park Court
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Thursday, September 26, 2013 2:07 PM
To: Nicole L. LaPlant
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Thanks for the update Nicole. Sounds like a good plan. This is the site that was not eligible for DERF, right?

John M Feeney, PG #750
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
Plymouth Service Center
920-892-8756 extension 3023
johnm.feeney@wisconsin.gov

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From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Thursday, September 26, 2013 1:50 PM
To: Feeney, John M - DNR
Subject: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi John,

Robert E. Lee & Associates has recently met with Mr. Gerald Kuehl (RP) of Quality Cleaners and visited the Site. We have developed a scope of work for additional investigation activities at the Site and anticipate to proceed with the field work this fall 2013.

Mr. Kuehl has two tenants in the building and the cleaners portion is vacant. He would like to be able to rent the cleaners portion of the building also. Given the concentrations of PCE detected in soil beneath the building during previous sampling, REL believes assessing the vapor intrusion pathway in the building is a priority. REL proposes to use a stepped approach to completing the investigation at the Site by first defining the extent of soil contamination and assessing potential vapor intrusion in the building, followed by the completion of the groundwater

investigation. Depending on the VI results, mitigation may be necessary prior or concurrent to the groundwater investigation.

Soil Investigation:

We recommend up to 6 soil borings be placed outside the building foot print to define the extent of CVOCs in soil. The borings will be advanced to a minimum of approximately 4.5 feet below grade or the top of bedrock. It is our understanding that bedrock was encountered at the Site from between 4.5–6 fbg. Soil samples will be collected at 2-foot continuous intervals. Each soil sample will be described in the field by an REL geologist or environmental scientist. Soil samples will be immediately preserved for potential laboratory analysis and subjected to field screening using a MiniRAE 3000 photoionization detector (PID). The soil sample (1 sample) exhibiting the greatest PID reading in each soil boring above the apparent water table and/or bedrock will be submitted to a WDNR-certified laboratory for analysis of VOCs.

Vapor Intrusion Investigation:

We recommend 2 paired sub-slab vapor samples paired with 8-hour indoor air samples will be collected within the Site building. One sub-slab sample will be collected from within the former dry cleaner occupied area and one sub-slab will be collected from within the tenant occupied space. One outdoor air sample will also be collected concurrent to the indoor air sampling. Prior to sub-slab sample collection, REL will conduct a survey of each building and inventory materials that could potentially contribute to indoor air conditions, unrelated to vapor intrusion. Vapor and air samples will be collected in a 6-liter capacity Summa™ canister fitted with laboratory supplied regulators that allow the appropriate flow rate for the samples. The vapor and air samples will be laboratory analyzed using EPA Method TO-15 for the chemicals of concern identified in soil and groundwater. The chemicals of concern include cis-1,2-dichloroethlene, (cis-1,2-DCE), trans-1,2- dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride.

Following the completion of the soil and vapor intrusion investigation, a letter report will be prepared presenting the results. The report will include a narrative describing the methods and results, figures, tabulated data, and copies of the analytical laboratory report and applicable field sampling forms, and recommendations for additional work, if deemed necessary.

Please let me know if you need a more formal workplan regarding the proposed sampling or if you have any concerns or questions. We would appreciate your feedback and/or concurrence with this initial further investigation. Feel free to call and discuss. We appreciate your time.

Thank you,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
4664 Golden Pond Park Court
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Plymouth Service Center
1155 N Pilgrim Road
Plymouth WI 53073

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

February 5, 2014

Gerald Kuehl
5350 Cascade Dr.
West Bend, WI 53095

Dear Mr. Kuel:

Subject: Quality Cleaners, 1226 11th Avenue, Grafton, file reference FID #246166470, BRRTS #0246560212.

Thank you for having your consultant submit the latest vapor intrusion testing data via email. The samples collected by your consultant in the former dry cleaner building at the above address indicate concentrations in indoor air and sub-slab samples to be above health based risk standards for long-term exposure. Based on this information, the Department of Natural Resources (WDNR) requires that you install active mitigation in the building (a sub-slab depressurization system similar to a radon mitigation system) if it is to remain occupied, and notify the occupants. Please work with the state and local health departments with this notification.

Post installation sampling will be required to confirm that the system is effective. Note that any building material that may have been contaminated with PCE when the interior was a dry cleaner shop could contribute to indoor air concentrations and may have to be sealed or removed. The department will require remediation at this site after the site investigation is complete.

WDNR requires testing in surrounding buildings until you determine the extent of the problem. A step-wise approach to sampling is usually best, starting with the closest building(s).

If you have any questions about this letter, please call me at 920-893-8523.

Sincerely

John Feeney
Wisconsin Department of Natural Resources

Cc: Robert E. Lee & Associates
DHS
SER File

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Friday, December 26, 2014 3:14 PM
To: Feeney, John M - DNR
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212
Attachments: LaPlant Grafton final r4eport and bill.pdf

Hi John,

Hope you had a wonderful Christmas. The vapor mitigation system was installed inside the building on August 26 and 27, 2014 . For your review, attached is the report that Radon Abatement, Inc. prepared to document the installation. I wondering if this suffices WDNR's needs. This is the first report that I have seen.

I noticed item #8 on page 3 make a reference to "vapor post testing". REL has not designated this to any parties, nor has REL done any post-installation sub slab vapor sampling in the building. The report indicates that communication tests were conducted to confirm good sub-slab communication and all points verified good communication; however, I'd like to know your thoughts on the next action step with you. Would WDNR like to see a sub-slab sampling event performed this winter?

Let me know if you have any questions after you review this report.

Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Tuesday, December 16, 2014 3:05 PM
To: Nicole L. LaPlant
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi Nicole. Can you give me a brief update on what is going on, on the site?

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John Feeney
Phone: 920-893-8523
Johnm.feeney@wisconsin.gov

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, August 22, 2014 12:00 PM
To: Evans, Elizabeth - DHS; Feeney, John M - DNR
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

John and Liz,

It is my understanding that the mitigation system is to be installed in the building next week (week of August 25th). I will keep you posted as I hear more. Have a good weekend.

Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Evans, Elizabeth - DHS [mailto:Elizabeth.Evans@dhs.wisconsin.gov]
Sent: Friday, August 01, 2014 8:41 AM
To: Nicole L. LaPlant; Feeney, John M - DNR
Cc: Bruce D. Meissner
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Thank you for the update Nicole. Have a good vacation!

Liz Evans

Elizabeth Truslow-Evans, MPH
Epidemiologist
Bureau of Environmental and Occupational Health
Division of Public Health, Wisconsin Dept of Health Services
1 W Wilson St, Rm 150
Madison, WI 53701
(608) 266-3393
http://dhs.wisconsin.gov/eh/

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Thursday, July 31, 2014 1:36 PM
To: Feeney, John M - DNR
Cc: Evans, Elizabeth - DHS; Bruce D. Meissner
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi John,

You're welcome. I spoke with Mr. Kuehl's son-in-law (Bruk Thompson) earlier this week. He indicated that they would proceed with choosing a contractor shortly. From their preliminary review, it seemed as though they will be contacting Tom Heine of Radon Abatement about installing the system. Mr. Thompson said he would contact me once they sign a contract. I will be on vacation next week, but will follow up with them when I return to check on the status (if I don't hear by then).

Let me know if you have any questions. Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Wednesday, July 30, 2014 2:50 PM
To: Nicole L. LaPlant
Cc: Evans, Elizabeth - DHS; Bruce D. Meissner
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi Nicole. Thanks for sending me the preliminary documentation from Robert E Lee Associates, Inc. Do you have a timeframe for when the mitigation system will go in at 1228 11th avenue?

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John Feeney
Phone: 920-893-8523
Johnm.feeney@wisconsin.gov

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Monday, July 07, 2014 5:26 PM
To: Feeney, John M - DNR
Cc: Evans, Elizabeth - DHS; Bruce D. Meissner
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi John,

I spoke with Liz Evans this afternoon regarding the status of the mitigation system installation for the former Quality Cleaners building (the Site). Liz indicated that she received a phone call today from someone who had some health issue questions. Liz and I spoke about the current status of the Site.

Concurrent to the VI sampling conducted by REL in April 2014 at the adjacent 1224 11th Ave property, REL contacted 3 mitigation system installers (two are local contractors Nancy R. provided for us, and the third is Acura Services, LLC) in

effort to assist the RP (Mr. Kuehl) in bid gathering. REL provided the sampling results, and any other information to the contractors to assist in their bid preparation. At least, one of the contractors even looked at the building.

As of today, I have one full bid for system installation and a price from a second contractor for pre-diagnostic testing (no system install is included in this bid). Nothing from the 3rd contractor, although I did speak with him and he was interested in bidding.

Liz explained that DHS would like to get the system in place as soon as possible. REL agrees it is a priority as well WDNR does too. The Site is not DERF eligible, RP is paying for Site work out-of-pocket. We believe Mr. Kuehl's finances should be spent on the system install prior to any other soil/groundwater SI work. The drilling bids REL recently obtained for the additional SI work range from $11,000 to $13,000. With this in mind, I prefer to not pursue soil and groundwater work at this time, so Mr. Kuehl can chose/work with a contractor for installing the VI mitigation system.

Mr. Kuehl does not have email, so my means of communication with him are limited to phone calls or site meetings. Quick exchange of information can be difficult. To get moving on getting the VI system installed, REL prefers to have Mr. Kuehl more involved at this point to keep pursuing the contractors, chose a VI contractor, and contract direct with a system installer. We will continue to assist as needed throughout.

REL will send a letter to Mr. Kuehl this week and call him as explaining this next step REL is recommending. I'll copy you and Liz on the letter, and provide the cost information that I have from the contractors thus far. Please let me know if you have any questions.

Liz ~ feel free to add anything I may have missed that we discussed today. Since I was on a job site, I may have forgotten something. I appreciate both departments help on this as we navigate through the complexity of this site.

Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Thursday, June 05, 2014 8:12 AM
To: Nicole L. LaPlant
Cc: Ryan, Nancy D - DNR
Subject: RE: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi Nicole. Nancy Ryan and I talked this over and came up with the following comments:

Yes, you need confirmation sampling next door at 1224 11th Ave, with one sample in Winter, worst case scenario. We have been asking for three samples total. Since you got detects next door close to the standard, it would be a good idea at this time to consider taking vapor samples at the next two closest buildings.

You probably already have this in mind, but additional sampling may be needed depending on the results of your investigation after you map out the soil and groundwater contaminant plumes.

John M Feeney, PG #750
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
Plymouth Service Center
920-893-8523
johnm.feeney@wisconsin.gov

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From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, May 30, 2014 2:38 PM
To: Feeney, John M - DNR
Subject: Status Update Quality Cleaners, Grafton, WI - BRRTS #02-46-560212

Hi John,

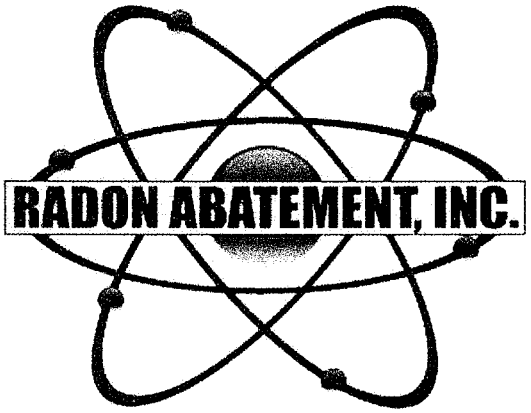
Attached for your review and opinion of the next steps is the VI data collected from the building adjacent (1224 11th Avenue) to the Quality Cleaners building. I will be calling the off-site property owner this afternoon as they are inquiring. I will let them know that a letter will be sent indicating the next step for their property after we talk.

I'm unsure if you want another sample collected to confirm or if this suffices?? In our opinion, based on this result a mitigation system for this building does not appear necessary. I expect once the mitigation system gets installed in the Quality Cleaners building the VI pathway in this building will remain protected.

Thanks for all your help. Look forward to hearing from you.

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641
Fax: 920-662-9141
nlaplant@releeinc.com



12221 West Rockne Avenue Hales Corners Wisconsin 53130 414-546-3691
414-546-3691 radabt1@wi.rr.com

VAPOR EXTRACTION
FINAL REPORT AND BILLING

Contacts:

Robert E. Lee and Associates
Nicole L. LaPlant
Senior Project Geologist
1250 Centennial Centre Boulevard
Hobart, WI 54155
Office: 920-662-9641 / Facsimile 920-9141
nlaplant@releeinc.com

Coldwell banker
Bruk Thompson
870 W. Paradise Dr.
West Bend, WI 53095
262-305-4868
Bruk.thompson@cbexchange.com

Location:

Commercial Building
Old Dry Cleaning Store site
1228 11th Avenue
Grafton, WI 53024
Ozaukee County Wisconsin

FINAL REPORT

The commercial building was accessed for THE VAPOR EXTRACTION with the real estate lock box.

COMPLETED PROJECT

1. Sealing was conducted on all floor penetrations and cracks that may affect the integrity of the remediation system.

2. Two remediation points were clean drilled and developed along in manifold along the inside south wall of the said building for sub-slab depressurization of the affected sub-soil. One in the southeast furnace room and another approximately mid building along the south wall. Approximately ten (10) gallons of sub-soil were excavated through the drilled four inch draw points that developed the system's needed depressurization for efficient extraction from the excavated draw pits.

3. Schedule 40 PVC ventilation pipe were carried superior from the described remediation points and manifold together. The ventilation pipe was then carried through the upper rear east side of the building's upper exterior wall at the southeast corner. The exhausting was then carried twelve (12) inches above the roof line. A partial goose neck was applied to retard moisture entrance and directed the flumes to the east, away from other buildings and fresh air intakes. The wall penetrations were properly secured and sealed.

4. A remediation suction fan was applied in line with the systems exhaust pipe close to the roof line. After initial communication testing the fan was properly sized to efficiently depressurize the sub-slab to gain proper evacuation of intruding sub-slab vapors. Energy economy was also taken into consideration in sizing the correct suction fan.

5. Communication tests were conducted to confirm good sub-slab communication. All four quadrants of the sub-slab were addressed at the perimeter and a central quadrant point. All of the communication points verified good communication.

6. Electrical power was gained from the main panel box and gained its own circuit. The electrician's separate bill is attached to quantify the final charge. Radon Abatement's state licensed electrical pulled the proper permits and performed this work. The system has an electric disconnect adjacent to the fan.

7. A manometer warning device was applied on the drop pipe to inform the occupants of any system shutdown. Company identification tags were applied next to the manometers for building occupants reference and company contact.

8. Vapor post testing were conducted by responsible parties designated by Robert E. Lee Incorporated to insure the systems effectiveness.

The work took approximately two eight working days with a three man crew.

Note: A company maintenance program was strongly suggested and made available through the company. This would be separately contracted.

Note: Radon Abatement Incorporated liability is limited to the factory warranties on system components installed. All labor was performed as stated in this proposal in an experienced contractor-like manner. Two working days were required to complete the work.

TOTAL COST OF ALL THE WORK NECESSARY TO THIS PROJECT

The charges for component parts and labor for the system is: Four-thousand and one-hundred dollars. ($4,100.00)

Electrician charges two-hundred and forty-five dollars ($245.00)

Total Charges due and owing Four-thousand-three-hundred and forty-five dollars ($4,345.00).

Payment is due within 30days of this billing. Final invoice attached.

Respectfully submitted by: **Thomas J. Heine and Erik V. Heine**
PTT and Radon Abatement Inc. owner and representative

In the event that any of the terms of this proposal / contract are breached, including and not limited to the fee for parts of labor; Radon Abatement Inc. will be entitled to collect collection fees, attorney fees, and interest set at 18% per annum.

Radon Abatement Inc.

_____

Thomas J. Heine
President

Laura Buckner

From: Tom Heine <radabt1@wi.rr.com>
Sent: Wednesday, June 08, 2016 4:16 PM
To: sjkuehl@sbcglobal.net
Cc: johnm.feeney@wisconsin.gov; Chris Sitzmann; Nicole L. LaPlant
Subject: Maintenance program report
Attachments: Communication Testing Drawing06082016.pdf; Maintenance evaluation 060816.doc

Dear Susan Kuehl and all others concerned:

Attached are the promised report and supporting data.

The building is being abated efficiently and safely for occupancy.

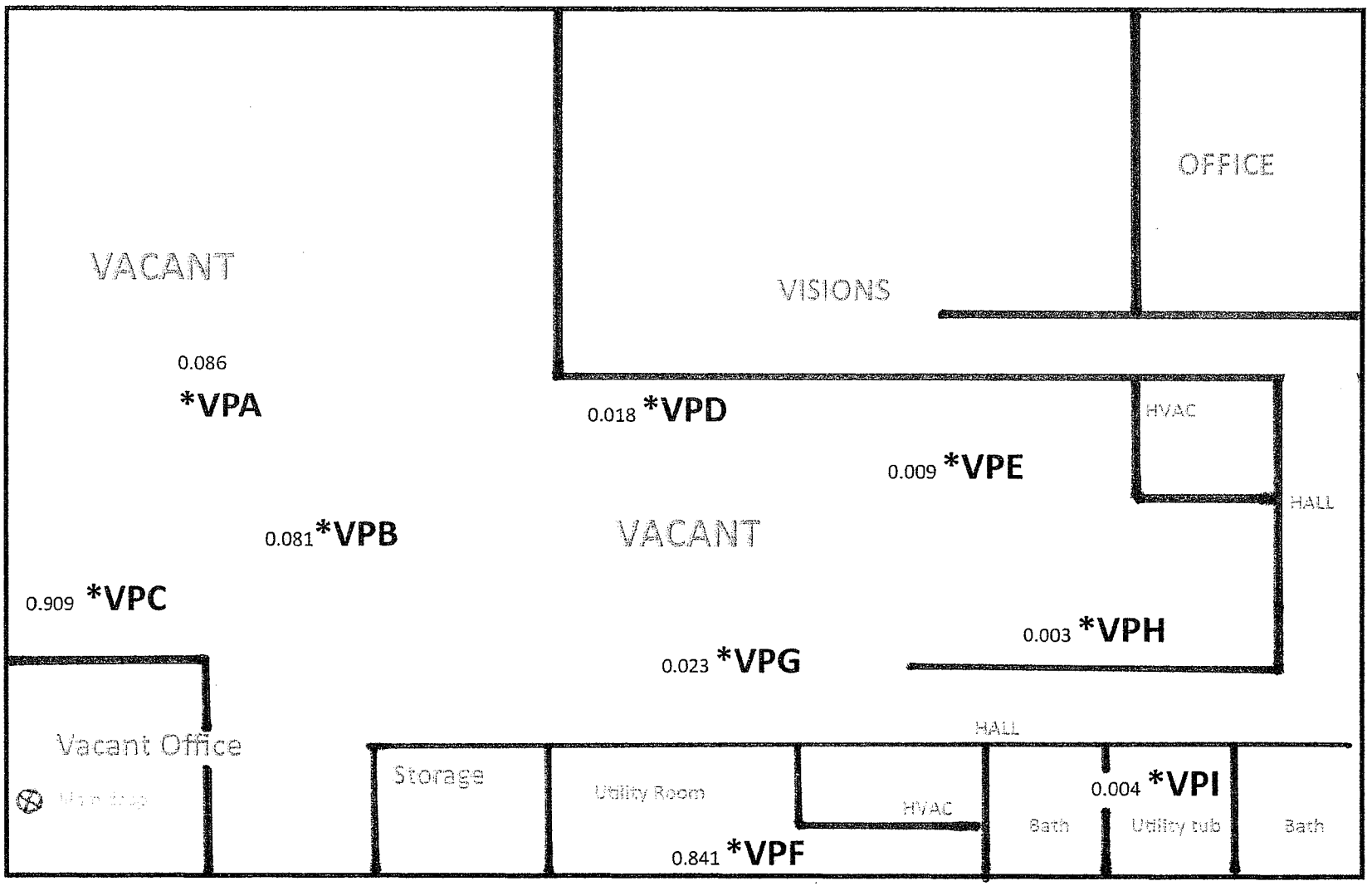
If you have further questions, or need additional information, please do not hesitate to call or email.

We will schedule another evaluation at the end of the year.

Best regards,

TOM

Tom and Erik Heine
12221 West Rockne Avenue
Hales Corners, WI 53130
414-546-3691
radabt1@wi.rr.com
www.radonprofessionalcare.com



W
N

AARST NRPP

RADON ABATEMENT, INC.

Communication Diagnostics 060316

Active Sub Slab Depepressurization Vapor Extraction System ASSDVES
1228 11th Avenue Grafton Wisconsin 53024

This drawing is not to scale

RADON ABATEMENT, INC.

Corporate Office 12221 West Rockne Avenue Hales Corners WI 53130
414-303-4038 radabt1@wi.rr.com

VAPOR EXTRACTION SSD SYSTEM EVALUATION

Date: 060816

Client: **Susan Kuehl**
Representative for Gerald Kuehl Estate
121 Ashland Court
Sheboygan Falls, WI 53085
1-920-550-2165
sjkuehl@sbcglobal.net

Radon Abatement
Remediation Location: Ozaukee County
Commercial Building
1228 11th Avenue
Grafton, WI 53024
BEERS 02-46-560212

Representative: Christopher G. Sitzmann, Sitzmann Law Firm Ltd.; 231 W. Franklin Street Appleton, WI 54911; 920-733-3963 csitzman@sitzmannlaw.com

Robert E. Lee representative: Nicole LaPlant; 920-662-9641; 1250 Centennial Centre Blvd., Hobart, WI 54155 nlaplant@releeinc.com

DNR Reviewer and advisor: John Feeney, Wisconsin PG #750; Plymouth Service Center; 1155 N. Pilgrim Road, Plymouth, WI, 53073 920-893-8523 johnm.feeney@wisconsin.gov

Contact for access of the building: North unit Hair Vision; Bonnie at 262-483-2708

EVALUATION conducted by Dr. Thomas Heine, president of Radon Abatement Incorporated
National certification for Mitigation 101879MT and Measurement 101878RT

AARST-NRPP
RADON PROFESSIONALS SAVING LIVES

The active SSD vapor extraction system (ASSDVES) that was evaluated was applied to the captioned building by Radon Abatement Incorporated.

1. **Structural integrity of the captioned building and the applied active sub-slab depressurization extraction system.**
   The building shows signs of foundation failure or a disposition that would affect the systems efficiency or safety. The building was examined internally and externally. The ASSDVES was found to be in good condition and functioning. All component parts appeared to be in good working condition.

2. **Proper sealing**
   The building was examined for foundation breaches and unsealed penetrations. The grounding rod for the building's electrical system appeared to have been replaced. The pre-drilled hole in the concrete that was utilized for the ground rod installation and electrical application was open to the sub slab. It was sealed to insure full efficiency of the ASSDVES.

3. **Mechanical Analysis of the SSD Vapor Pump/Fan**
   The remediation pump/fan was in good condition. It was removed from its inline application on the exterior upper south wall and cleaned. All of the functional elements were in good working condition. The electrical components showed no signs of environmental damage or tampering. The pump/fan was in good condition with no signs of early failure.

4. **System assessment for efficiency with communication testing**
   Nine 3/8th inch holes were drilled to the sub-slab throughout the foundation slab of the building. They were letter designated for reference. All of the nine diagnostic holes were vacuumed clean and seal-covered for individual assessments during the communication testing process.
   With the ASSDVES functioning, each of the diagnostic ports was measured for depressurization with an INFILTEC digital micro manometer, model DM1 which is annually examined and maintained for efficiency. Measurements US 0.000 inches of water column. The findings are listed below and the drawing of the building that is attached and made part of this report and designated as Exhibit "A" defines the locations of the diagnostic ports. A manometer was applied to the main drop. The micromanometer reading at the drop was 1.068.

A. 0.086	**F. 0.841**
B. 0.081	**G. 0.023**
C. 0.909	**H. 0.003**
D. 0.018	**I. 0.004**
E. 0.009	

5. **Overview and Recommendations**

   The system appears to be functioning efficiently and safely. It meets all the recent protocol and standards set by the United States Environmental Protection Agency (USEPA) and the American Association of Radon Scientists and Technologists National Radon Proficiency Program (AARST-NRPP). The building is safe for occupancy from sub slab vapors, gases and fumes.

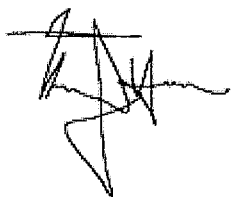
   Any damage or changes made to the said building need to be reported to Radon Abatement Incorporated immediately. This includes damage, malfunction or failure of the ASSDVES.

Further evaluations will be conducted bi-annually under contract with a generated report sent to Susan Kuehl for review and distribution to all parties coupled to this activity

Additional explanations, revisions or clarifications, will be generated upon request on the conditions of contract.

Thomas J. Heine
President
Radon Abatement Incorporated

Signature:



060816

Laura Buckner

From: Tom Heine <radabt1@wi.rr.com>
Sent: Tuesday, April 05, 2016 9:57 PM
To: sjkuehl@sbcglobal.net; Nicole L. LaPlant
Cc: Chris Sitzmann
Subject: FW: 1226 11th ave Grafton WI BEERS 02-46-560212
Attachments: Communication testing 001.jpg; u-tube.tif

From: Tom Heine [mailto:radabt1@wi.rr.com]
Sent: Tuesday, April 05, 2016 9:54 PM
To: 'Susan Kuehl'
Subject: RE: 1226 11th ave Grafton WI BEERS 02-46-560212

Good evening Susan:

There is a U-tube Manometer on the unit. There is a picture of one attached. The manometer registers depressurization gradients in inches of water column (vacuum/suction measurement increments). This is always a USEPA/AARST-NRPP requirement on systems to demonstrate efficient system function.

Along with all the other items of review in maintenance that I listed for you, the most important analysis of the system is a "Communication Test". This is USEPA/AARST required to demonstrate efficiency and safety. This was accomplished following the work for a base line and is repeated to demonstrate the systems proper function in a maintenance follow-up analysis.

Please have your attorney call me directly if he needs further explanation (414-303-4038). I have attached a schematic from the USEPA recommendations that describes the communication testing. Please forward this information to your councilor for his review.

Our company strictly follows all the protocol and Standards set by the USEPA (United States Environmental Protection Agency) and AARST,SC/NRPP (American Association of Radon Scientists and Technologists standards consortium/National Radon Proficiency Program) for vapor extraction systems like the one we installed in your Grafton building.

The State of Wisconsin DNR and DHS have adopted and advocates the stated protocol and Standards from the USEPA and AARST, SC-NRPP.

Have a pleasant day tomorrow. We will wait to move forward upon your attorney's satisfaction and your acceptance of our company's service.

Best regards,

TOM

From: Susan Kuehl [mailto:sjkuehl@sbcglobal.net]
Sent: Tuesday, April 05, 2016 4:44 PM
To: Tom Heine
Subject: Fwd: 1226 11th ave Grafton WI BEERS 02-46-560212

Dr. Heine,

Please see email below. Do you know if there is a monometer gauge?

And then could you please hold off on the inspection until next week?

Thank you,

Susan Kuehl

Sent from my iPad

Begin forwarded message:

From: "Christopher G. Sitzmann" <csitzmann@sitzmannlaw.com>
Date: April 5, 2016 at 4:37:19 PM CDT
To: <sjkuehl@sbcglobal.net>
Cc: <nlaplant@releeinc.com>
Subject: RE: 1226 11th ave Grafton WI BEERS 02-46-560212

SUE
I just spoke to FEENEY.
He wants to check with someone in Milwaukee re what Pressure Test Data is needed.
He also wanted to know if the system had a monometer gauge.
Can you have Radon Abatement hold off till next week?
FEENEY said he would get back to me next week.
Thank you

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street |Appleton, WI 54911
office: (920) 733-3963 |fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

-----Original Message-----
From: sjkuehl@sbcglobal.net [mailto:sjkuehl@sbcglobal.net]
Sent: Tuesday, April 05, 2016 12:34 PM

To: Christopher G. Sitzmann
Subject: Re: 1226 11th ave Grafton WI BEERS 02-46-560212

Hi Chris,

Have you heard anything from Mr. Feeney. The company that is going to the inspection/maintenance would like to go out tomorrow and complete the task. Don't you think he has had plenty of time to raise any concerns? Please let me know.

Thank you,

Sue Kuehl

On Thu, 3/24/16, Christopher G. Sitzmann <csitzmann@sitzmannlaw.com> wrote:

Subject: 1226 11th ave Grafton WI BEERS 02-46-560212
To: "JOHN FEENEY" <JOHNM.FEENEY@WISCONSIN.GOV>
Cc: sjkuehl@sbcglobal.net, nlaplant@releeinc.com
Date: Thursday, March 24, 2016, 11:33 AM

JOHN
Please see the attached Maintenance Program Report Outline to supplement my email from yesterday re the above case.

Thank you

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street |Appleton, WI 54911
office: (920) 733-3963 |fax: (920) 733-8873 csitzmann@sitzmannlaw.com www.sitzmannlaw.com

-----Original Message-----
From: admin@sitzmannlaw.com
[mailto:admin@sitzmannlaw.com]

Sent: Thursday, March 24, 2016 12:18 PM
To: csitzmann@sitzmannlaw.com
Subject: SCAN FROM COPIER

THIS IS A SCAN FROM THE KYOCERA COPIER. PLEASE DO NOT REPLY TO THIS MESSAGE.

KM-2560
[00:c0:ee:44:0a:b8]

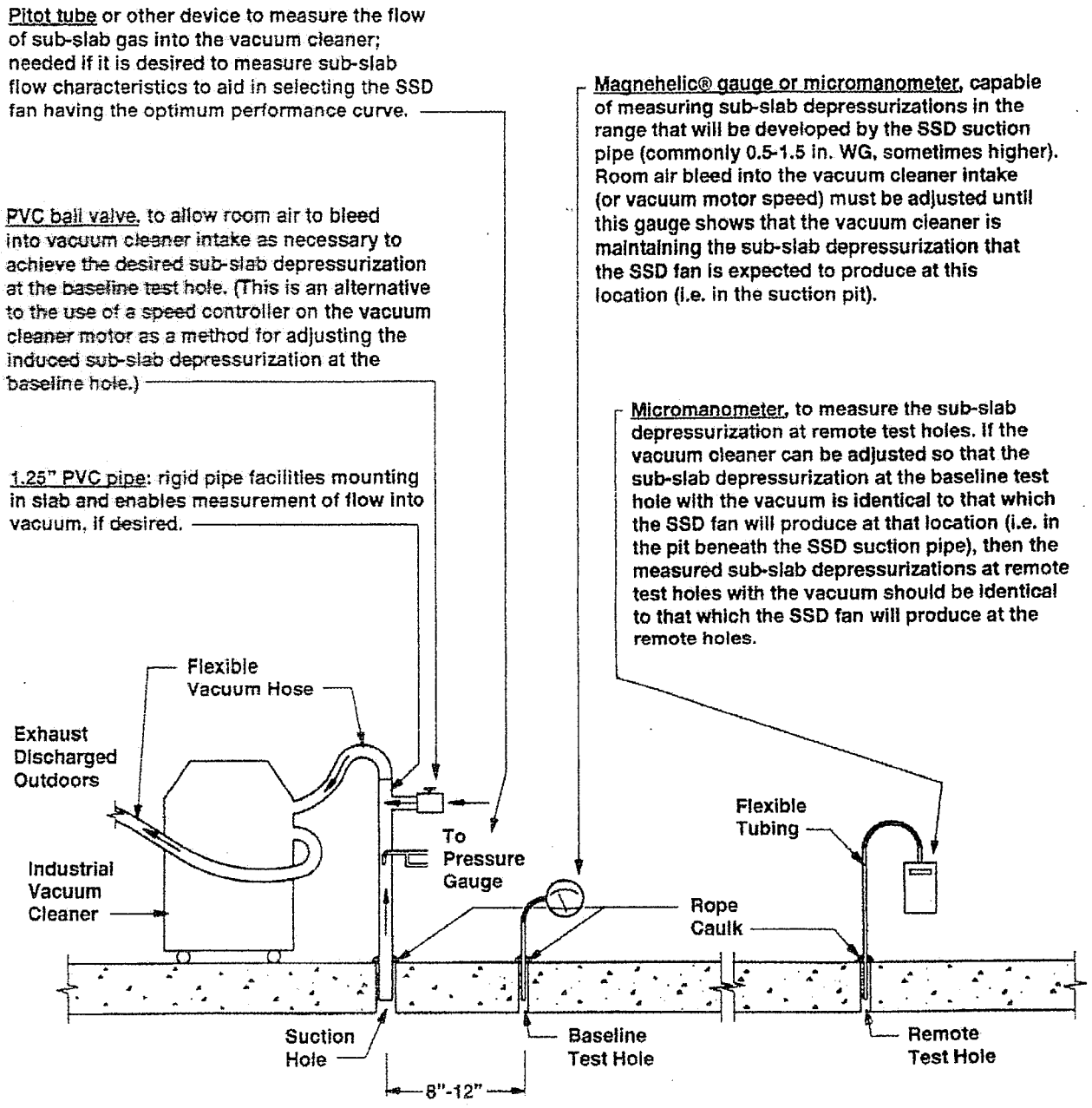


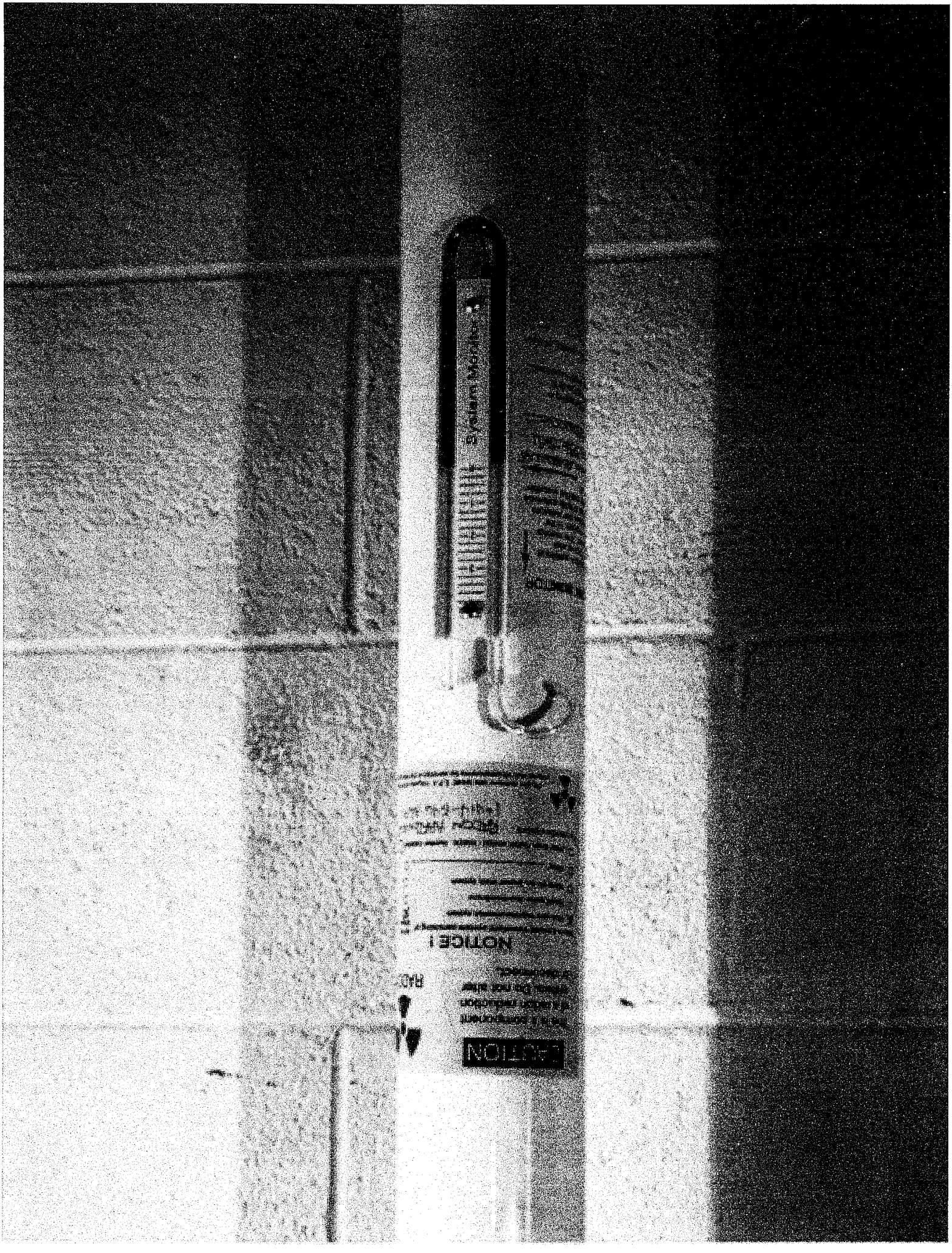
Figure 9. Experimental configuration for quantitative pre-mitigation sub-slab suction field extension and flow diagnostics using a vacuum cleaner.

suction pipe at a convenient location without spending the estimated $45 to do the diagnostics. Installation of a second pipe adds roughly $135 (standard deviation $44) to $225 (standard deviation $90) to the cost, depending upon degree of finish. It is a judgement call regarding whether it is a reasonable gamble to spend $135-$225 to install a suction pipe without first spending roughly $45 for diagnostics to see if the pipe is necessary and where it should optimally be located.

The following discussion describes the equipment and materials needed, the test procedure, and the means for interpreting/utilizing the test results, for each of the two measurement approaches.

3.3.1 Qualitative Assessment of Suction Field Extension

This suction field extension measurement approach provides a qualitative indication of whether communication is relatively good or poor, and of how uneven it may be.


Mercury Manometer
NOTICE !

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Monday, September 11, 2017 1:42 PM
To: Christopher G. Sitzmann
Cc: sjkuehl@sbcglobal.net; Laura Buckner (laura@sitzmannlaw.com)
Subject: RE: estate of Gerald Kuehl - email #4
Attachments: VI Post Mitigation Air Sampling for Quality Cleaners - Grafton BRRTS #02... (1.92 MB); L080216A_GW Site Inv Workplan_REDUCED .pdf

This is the last email with REL's post mitigation system installation air sampling results in the Kuehl building, and REL's the last submittal to the WDNR, which was the "Groundwater Investigation Workplan". The GW workplan has the results of the soil and groundwater sampling we completed in 2016.

This is everything we have in our files. Let me know if you have any questions. Thank you,

Nicole

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlaplant@releeinc.com

From: Christopher G. Sitzmann [mailto:csitzmann@sitzmannlaw.com]
Sent: Friday, September 08, 2017 12:34 PM
To: Nicole L. LaPlant
Cc: sjkuehl@sbcglobal.net; Bruce D. Meissner; 'Laura Buckner'
Subject: RE: estate of Gerald Kuehl

Nicole
Thank you so much
Have a great weekend

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street |Appleton, WI 54911
office: (920) 733-3963 |fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Friday, September 08, 2017 12:30 PM
To: Christopher G. Sitzmann

Laura Buckner

From: Nicole L. LaPlant <nlaplant@releeinc.com>
Sent: Friday, December 04, 2015 3:33 PM
To: Johnm.Feeney@wisconsin.gov
Cc: sjkuehl@sbcglobal.net; Chris Sitzmann; Bruce D. Meissner
Subject: VI Post Mitigation Air Sampling for Quality Cleaners - Grafton BRRTS #02-46560212
Attachments: Figure 1 Vapor Intrustion Sampling Locations.pdf; VI sampling field sheets 103015.pdf; air sampling lab report 120315.pdf; VI analytical results table.pdf

Good Afternoon John,

On October 30, 2015, REL completed post-mitigation indoor (ambient) air sampling within the former Quality Cleaners building. The sampling was completed in accordance with the scope of work described below. Laboratory analytical results indicate no detection of CVOCs in excess of the applicable indoor air VAL within the building. I've attached a figure showing the sample location, table summarizing the air analytical results, along with our field sheets documenting the work, and the 12/3/15 laboratory analytical report. Based on the results, it appears the mitigation system is serving its purpose of depressurizing the slab and protecting indoor air quality. It is REL's understanding that the indoor air sampling meet the request of the post-mitigation sampling and the building may continue to be occupied for commercial use.

In your June 6, 2015 email correspondence, in addition to the post-mitigation sampling you also indicated a maintenance plan for inspecting the system is required by the WDNR. Based on the results of the indoor air sampling, it is recommended that the maintenance plan include an inspection of the mitigation system every 6 months. Please let us now if you agree with this maintenance schedule.

Upon your reply, REL will assist the Gerald Kuehl estate representative in submittal of a maintenance plan. We look forward to your response.

Thanks,
Nicole

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlplant@releeinc.com

From: Nicole L. LaPlant
Sent: Wednesday, July 29, 2015 5:13 PM
To: 'Feeney, John M - DNR'
Cc: Chris Sitzmann; Bruce D. Meissner
Subject: RE: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

Hi John,

I was informed today that the floor in the Quality Cleaners building (Site building) has been sealed with epoxy by the contractor Mr. Kuehl (before his passing) was working with and REL has been asked to provide a cost estimate to complete the post-mitigation system installation indoor air testing in the Site building.

Per our phone discussion regarding locations/numbers of indoor air samples, REL plans to re-sample at the two sample locations (IA-1 and IA-2) sampled during January 2014 for comparison purposes of data. These previous locations represent worst case – above where the contamination is and in the hall/joint area for both hair style tenant occupied spaces. One outdoor (ambient) air sample with also be collected concurrent to the indoor air sampling for information on background air quality surrounding the building. Attached is a map with the previous sample locations and a table with the analytical results for reference with this email. REL will use the same indoor air sampling techniques/methods and analyze for the same analytical parameters (PCE, TCE, Cis-1,2 DCE, Trans-1,2, DCE and vinyl chloride) as in January 2014. No sub-slab vapor samples will be collected during this sampling event.

Based on our phone discussion today, WDNR concurs with this proposed sampling plan and REL should may proceed as discussed. Please let me know if you have any changes or comments. I will be in touch upon receipt of the results.

Thank you,
Nicole

Nicole L. LaPlant - Robert E. Lee & Associates, Inc.
920-662-9641 nlplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Wednesday, June 17, 2015 11:04 AM
To: Nicole L. LaPlant
Cc: Christopher G. Sitzmann (csitzmann@sitzmannlaw.com)
Subject: RE: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

Good morning Nicole. I talked to Nancy and she said to mainly follow our guidance. There should be one indoor air sample for each floor, and then one for each separate commercial or living space (if there are separate ones). Concentrate on occupied spaces, and worst case – above where the contamination is. We don't need sub-slab. Follow the guidance on when/how/what conditions to sample. Seal the floor cracks.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

John Feeney
Phone: 920-893-8523
Johnm.feeney@wisconsin.gov

From: Nicole L. LaPlant [mailto:nlaplant@releeinc.com]
Sent: Wednesday, June 17, 2015 9:18 AM
To: Feeney, John M - DNR
Cc: Christopher G. Sitzmann
Subject: RE: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

Good Morning John,

I'm following up on the email I send last week on June 9. I can't find that I received a response and want to make sure I haven't missed it. The estate is waiting to hear back from me regarding WDNR's response to the questions. I appreciate your help. Thanks,

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates, Inc.
1250 Centennial Centre Boulevard • Hobart, WI 54155
Office: 920.662.9641 • Fax: 920.662.9141
nlaplant@releeinc.com

From: Nicole L. LaPlant
Sent: Tuesday, June 09, 2015 1:06 PM
To: 'Feeney, John M - DNR'
Cc: Christopher G. Sitzmann
Subject: RE: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

Hi John,

I have a couple questions regarding the indoor air testing and sealing of the floor cracks.

1. Can you clarity/be more specific on the scope of the indoor air testing that WDNR is requiring? Such as number of samples in the building during one event, would there be subsequent events, and do any sub-slabs need to be pulled as well? Etc.

2. Regarding the sealing of the floor cracks. Mr. Kuehl contracted another party to epoxy the floor. Attached is a floor plan of the building depicting the area of proposed epoxy. We'd like WDNR feedback/guidance regarding whether or not the whole floor of the building should be covered, such as back storage area. Please provide further recommendations/comment. Just want to make sure what has been proposed by others is sufficient.

3. I was copied on the email from Radon Abatement send today, it looks like Mr. Heine sent over another copy of the final report (which I already forwarded to you) documenting the installation as his response to my request for the pressure data for the pressure field extension. Let me know if there is anything else I should request from the contractor at this time.

Thanks for your assistance. Much appreciated.

Nicole L. LaPlant
Senior Project Geologist

Robert E. Lee & Associates, Inc.
1250 Centennial Centre Boulevard • Hobart, WI 54155
Office: 920.662.9641 • Fax: 920.662.9141
nlaplant@releeinc.com

From: Feeney, John M - DNR [mailto:JohnM.Feeney@wisconsin.gov]
Sent: Tuesday, June 02, 2015 3:22 PM
To: Christopher G. Sitzmann
Cc: Nicole L. LaPlant
Subject: RE: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

Thanks for calling originally Chris. I just talked to our experts a moment ago and they said indoor air testing is needed in the building unless the new building use will be a dry cleaner (that uses PCE) or a nail salon. I also emailed Nicole and asked her to send me the pressure test data, and told her that a maintenance plan for inspecting the system is required at this time.

You would want to remove any building material that may be contaminated with solvents prior to the testing, and have the normal HVAC system running. Make sure the floor cracks are sealed too.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

John Feeney
Phone: 920-893-8523
Johnm.feeney@wisconsin.gov

From: Christopher G. Sitzmann [mailto:csitzmann@sitzmannlaw.com]
Sent: Tuesday, June 02, 2015 2:51 PM
To: Feeney, John M - DNR
Subject: QUALITY CLEANERS-GRAFTON BRRTS #02-46560212

John
Good to talk with you today. As we discussed Mr. Kuehl passed on April 10, 2015
Thank you for getting back to me on the need for additional indoor air sampling before the Kuehl Estate can occupy the property.

Sincerely,

Christopher G. Sitzmann
Sitzmann Law Firm Ltd. | Attorney at Law
231 W. Franklin Street |Appleton, WI 54911
office: (920) 733-3963 |fax: (920) 733-8873
csitzmann@sitzmannlaw.com
www.sitzmannlaw.com

Figure 1: Vapor Intrusion Sample Locations, Former Quality Cleaners, Grafton, WI

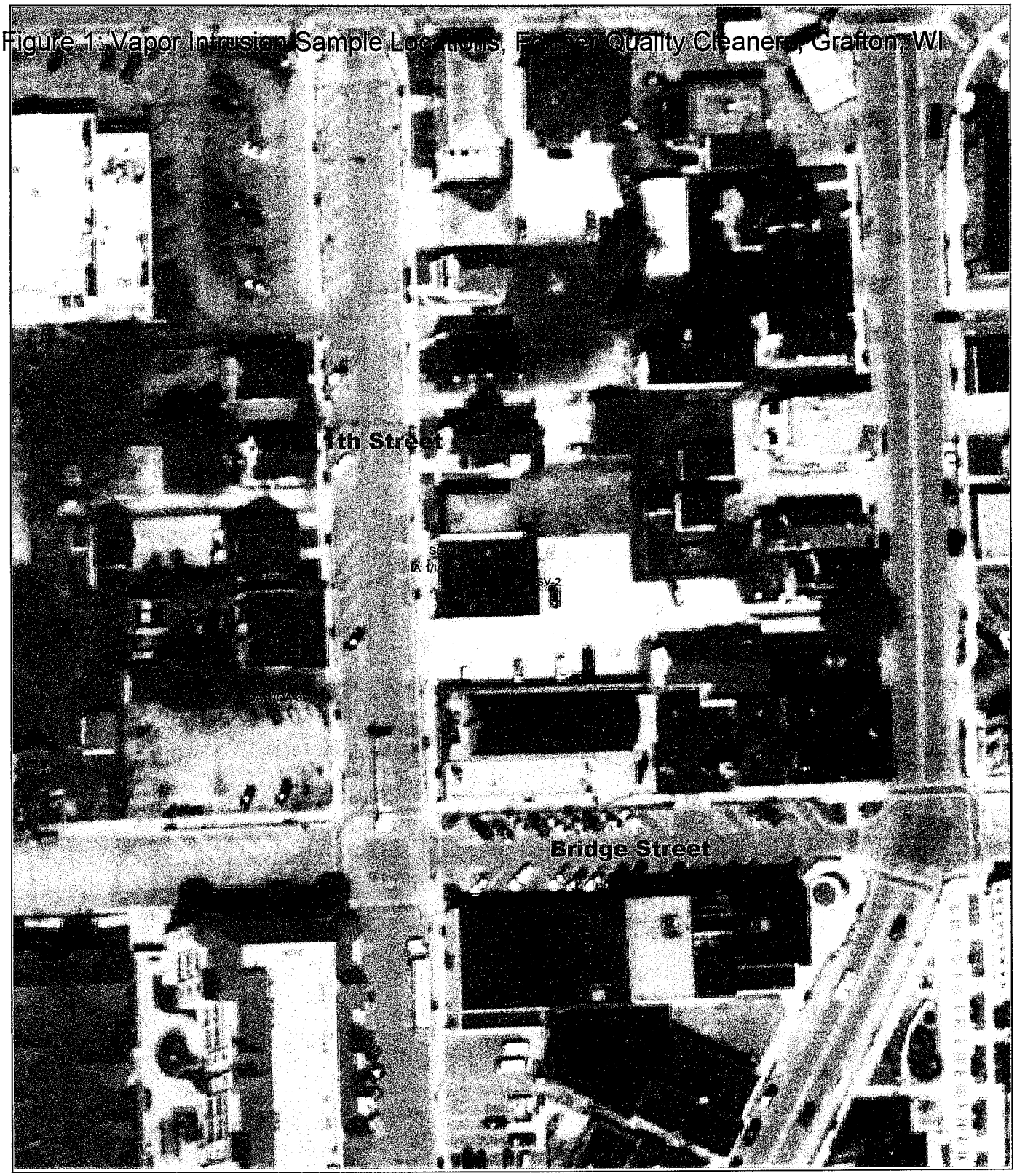


Figure 1 - Vapor Intrusion Sample Locations

SSV-1 = Sub-Slab Sample (30 minutes)

IA-1 = Indoor Air Sample (8 hour)

= Approximate Property Boundary

1238 11th Ave

SCALE: 1" = 81'

DISCLAIMER: Ozaukee County does not guarantee the accuracy of the material contained on this site and is not responsible for any misrepresentation of this information or its derivatives.

OZAUKEE COUNTY

Ozaukee County
121 W Main St P.O. Box 994
Port Washington WI 53074
262-284-9411

Print Date: 2/3/2014

Indoor Air Sampling Form

Project No.: 5630 -001
Project Name: Former Quality Cleaners
Sample Location: Quality Cleaners
Date: 10-30-15
Field Personnel: PHA
Recorded by: PHA

Weather: Clear
Air Temperature: 45°F
Atmospheric Pressure: 30 inches

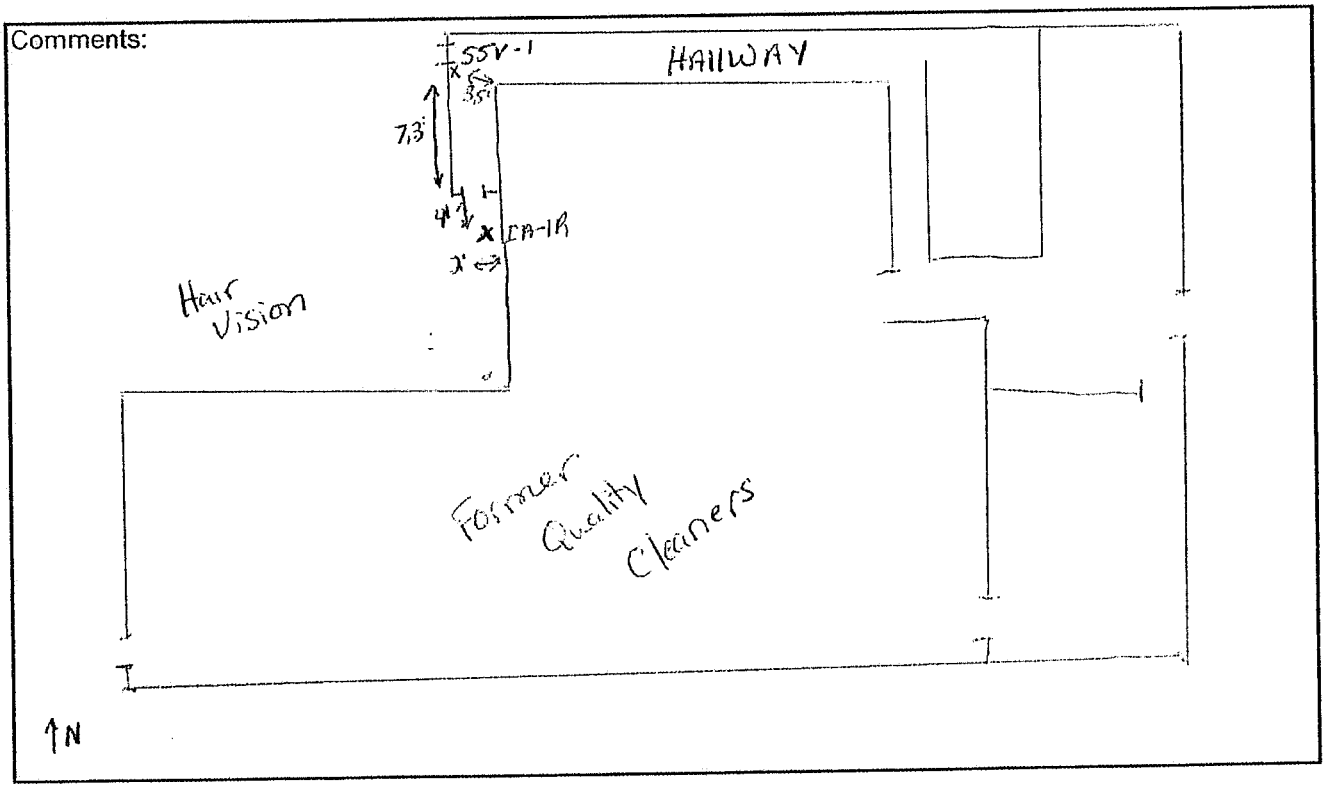
Sample Location Observations

HVAC System Operating (Y/N)?
HVAC System type (gas forced air, fuel oil, hydronic, etc.)?
Chemical Storage Near Sample Location? No
Windows Open? No
Occupants Smoking? No

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
10-30-15	0929	1640	IA-1R	2119	FC0435		-28	-3

Comments:



Indoor Air Sampling Form

Project No.:	5630-001	Weather:	clear
Project Name:	Former Quality Cleaners	Air Temperature:	45° F
Sample Location:	Quality Cleaners	Atmospheric Pressure:	30 inches
Date:	10-30-15		
Field Personnel:	PHM		
Recorded by:	PHM		

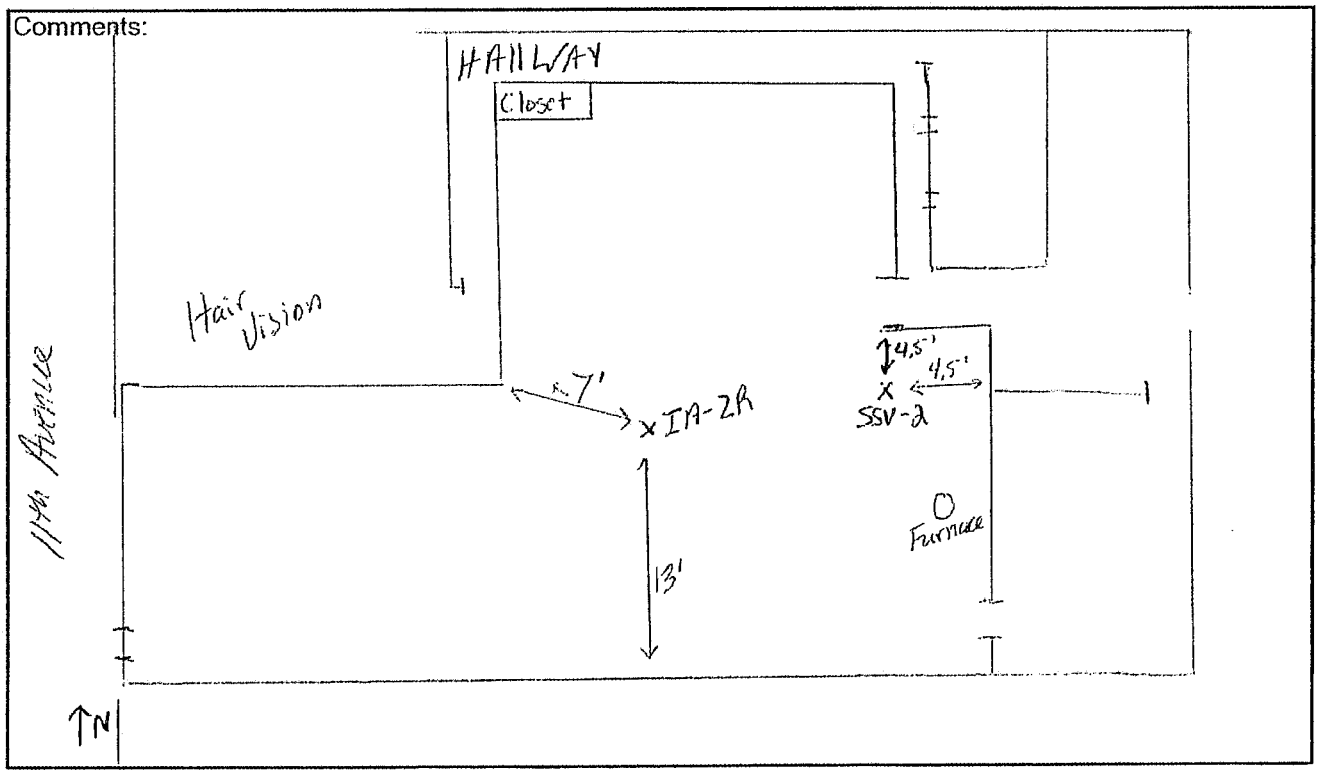
Sample Location Observations

HVAC System Operating (Y/N)?
HVAC System type (gas forced air, fuel oil, hydronic, etc.)?
Chemical Storage Near Sample Location? No
Windows Open? No
Occupants Smoking? No

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
10-30-15	0921	1630	IA-2R	2667	FC0411		-30	-4

Comments:



Outdoor Air Sampling Form

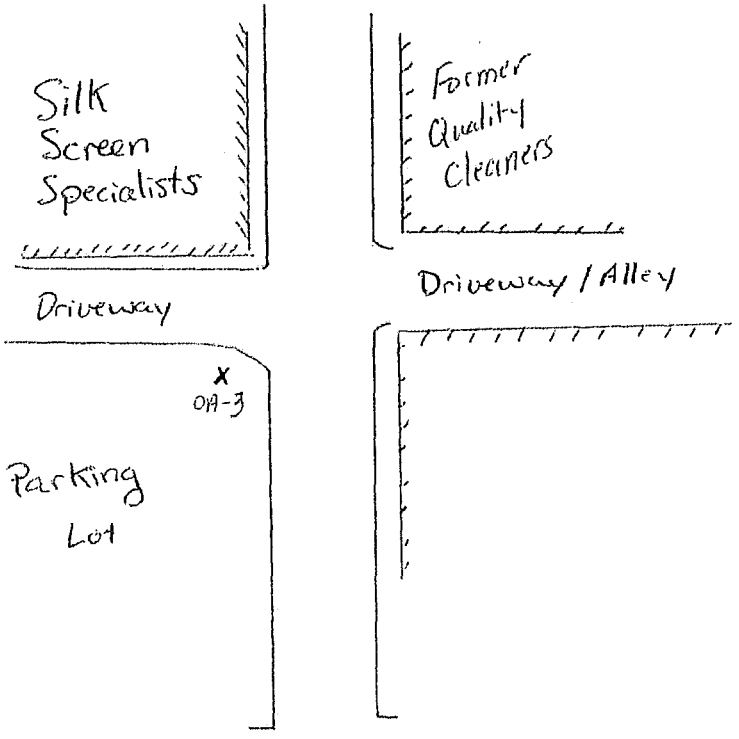
Project No.:	5630-001	Weather:	clear
Project Name:	Former Quality Cleaners	Air Temperature:	45°F
Sample Location:	Quality Cleaners	Atmospheric Pressure:	30 in.
Date:	10-30-15	Wind Direction	SE / 5mph
Field Personnel:	PHK		
Recorded by:	PHK		

Description of Sample Location

Canister Information

Date	Start Time	End Time	Sample ID No.	Canister ID No.	Flow Controller No.	Vacuum Gauge No.	Initial Vacuum	Final Vacuum
10-30-15	0940	1830	OA-3	2099	FC0112		-29	-5

Comments:



Pace Analytical®
www.pacelabs.com

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

December 03, 2015

Nicole LaPlant
Robert E. Lee & Associates
1250 Centennial Center Blvd.
Hobart, WI 54155

RE: Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Dear Nicole LaPlant:
Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised to correct the analyte list.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Pace Analytical®
www.pacelabs.com

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

SAMPLE SUMMARY

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10328755001	IA-1R	Air	10/30/15 16:40	11/04/15 12:00
10328755002	IA-2R	Air	10/30/15 16:30	11/04/15 12:00
10328755003	OA-3	Air	10/30/15 18:30	11/04/15 12:00

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

SAMPLE ANALYTE COUNT

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10328755001	IA- 1R	TO-15	MJL	5
10328755002	IA- 2R	TO-15	MJL	5
10328755003	OA- 3	TO-15	MJL	5

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

ANALYTICAL RESULTS

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Sample: IA- 1R **Lab ID: 10328755001** Collected: 10/30/15 16:40 Received: 11/04/15 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.2	0.37	1.49		11/09/15 18:55	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		11/09/15 18:55	156-60-5	
Tetrachloroethene	**5.9**	ug/m3	1.0	0.41	1.49		11/09/15 18:55	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.82	0.41	1.49		11/09/15 18:55	79-01-6	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		11/09/15 18:55	75-01-4	

Sample: IA- 2R **Lab ID: 10328755002** Collected: 10/30/15 16:30 Received: 11/04/15 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		11/09/15 19:51	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		11/09/15 19:51	156-60-5	
Tetrachloroethene	**<0.45**	ug/m3	1.1	0.45	1.61		11/09/15 19:51	127-18-4	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		11/09/15 19:51	79-01-6	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		11/09/15 19:51	75-01-4	

Sample: OA- 3 **Lab ID: 10328755003** Collected: 10/30/15 18:30 Received: 11/04/15 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.2	0.37	1.49		11/09/15 20:18	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		11/09/15 20:18	156-60-5	
Tetrachloroethene	**4.0**	ug/m3	1.0	0.41	1.49		11/09/15 20:18	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.82	0.41	1.49		11/09/15 20:18	79-01-6	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		11/09/15 20:18	75-01-4	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

QC Batch: AIR/24608 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10328755001, 10328755002, 10328755003

METHOD BLANK: 2130699 Matrix: Air
Associated Lab Samples: 10328755001, 10328755002, 10328755003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	11/09/15 14:17	
Tetrachloroethene	ug/m3	<0.28	0.69	11/09/15 14:17	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	11/09/15 14:17	
Trichloroethene	ug/m3	<0.28	0.55	11/09/15 14:17	
Vinyl chloride	ug/m3	<0.20	0.26	11/09/15 14:17	

LABORATORY CONTROL SAMPLE: 2130700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	51.2	127	64-137	
Tetrachloroethene	ug/m3	69	90.4	131	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	53.3	132	61-140	
Trichloroethene	ug/m3	54.6	69.8	128	70-134	
Vinyl chloride	ug/m3	26	31.5	121	72-129	

SAMPLE DUPLICATE: 2131308

Parameter	Units	10328755001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37		25	
Tetrachloroethene	ug/m3	5.9	5.9	0	25	
trans-1,2-Dichloroethene	ug/m3	<0.57	<0.57		25	
Trichloroethene	ug/m3	<0.41	<0.41		25	
Vinyl chloride	ug/m3	<0.29	<0.29		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

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QUALIFIERS

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5630-001 Quality Cleaners-Rev.
Pace Project No.: 10328755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10328755001	IA-1R	TO-15	AIR/24608		
10328755002	IA-2R	TO-15	AIR/24608		
10328755003	OA-3	TO-15	AIR/24608		

10328755

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

21476

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Robert E. Lee + Associates	Report To: Nicole LaPlant	Attention: Nicole LaPlant
Address: 1250 Centennial Centre Blvd. Hobart, WI 54155	Copy To:	Company Name: Robert E. Lee + Associates
Email To: nlaplant@releeinc.com	Purchase Order No.:	Address: 1250 Centennial Centre Blvd.
Phone: 920-662-9641 Fax:	Project Name: Quality Cleaners	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 5630-001	Pace Project Manager/Sales Rep. Carolyn Trout
		Pace Profile #:

Program: UST | Superfund | Emissions | Clean Air Act | Voluntary Clean Up X | 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

ITEM #	'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	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START / END/GRAB DATE	COLLECTED: COMPOSITE START / END/GRAB TIME	COMPOSITE DATE	COMPOSITE TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	IA-1A		6LC		10-30-15	09:24	10-30-15	16:40	-28	-3	2119	FC0735								X		001
2	IA-2R		6LC		10-30-15	0921	10-30-15	16:30	-30	-4	2667	EC0411								X		002
3	OA-3		6LC		10-30-15	09:40	10-30-15	18:30	-29	-5	2099	FC0112								X		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Comments:

TO15 Shortlist Only for: PCE, TCE, cis-DCE, trans-DCE, and vinyl chloride

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
A Kuehl Lellant	11-2-15	15:30		11/4/15	1200

SAMPLE CONDITIONS

AMB	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: VINCENT A. KUEHL

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/2/15

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Robert E. Lee

Project #: WO#: 10328755

10328755

Courier: ☐Fed Ex ☐UPS ☐Speedee ☐Client ☒Commercial ☐Pace ☐Other:

Tracking Number:

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): AMB Corrected Temp (°C): — Thermom. Used: ☐B88A912167504 ☐72337080 ☐B88A9132521491 ☐80512447

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: MS 11/4/15

Type of ice Received ☐Blue ☐Wet ☐None

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

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
JA-1R	PACE 2119	FC 04135			
JA-2R	PACE 2667	FC 0411			
OA-3	PACE 2099	FC 0112			

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 11/4/15

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)

TABLE 1
SUB-SLAB VAPOR AND AMBIENT AIR ANALYTICAL RESULTS SUMMARY
FORMER QUALITY CLEANERS, 1228 11th AVENUE, GRAFTON, WI

Sample ID	Sample Location	Sample Type	Date Collected	Relevant VOCs (µg/m³)				
				PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Small Commercial Sub-Slab Vapor Risk Screening Level (VRSL) -- µg/m³				6,000	290	---	---	930
Small Commercial Indoor Air Vapor Action Level (VAL) -- µg/m³				180	8.8	---	---	28
SSV-1	Hallway entrance to two tenant spaces, occupied by Hair Vision and private hair stylist.	Sub-slab	1/16/2014	**246,000**	3.3	ND	ND	ND
IA-1		Indoor air	1/16/2014	***882***	ND	ND	ND	ND
IA-1R*		Indoor air*	10/30/2015	5.9	< 0.41	< 0.37	< 0.57	< 0.29
SSV-2	Near the location of the former dry cleaning machine (vicinity of Boring B1)	Sub-slab	1/16/2014	**7,000,000**	ND	ND	ND	ND
IA-2		Indoor air	1/16/2014	***865***	ND	ND	ND	ND
IA-2R*		Indoor air*	10/30/2015	< 0.45	< 0.44	< 0.40	< 0.62	< 0.31
OA-1	Outdoor Background	Outdoor air	1/16/2014	1.5	ND	ND	ND	ND
OA-3*		Outdoor air*	10/30/2015	4	< 0.41	< 0.37	< 0.57	< 0.29

Key:

--- = No screening level established
ND = Not detected above laboratory detection limits
µg/m3 = Micrograms per cubic meter
PCE = Tetrachloroethene
TCE = Trichloroethene
Cis-1,2 DCE = Cis-1,2 Dichloroethene
Trans-1,2 DCE = Trans-1,2 Dichloroethene
138 = Vapor Risk Screening Level (VRSL) exceeded

14.5 = Vapor Action Level (VAL) exceeded
* = Sample collected after installation of the sub-slab depressurization system (i.e. post- mitigation) at the sample location of corresponding sample identification number

Notes:

1.) Sub-slab samples collected using Vapor Pin.

2.) The Vapor Risk Screening Level (VRSL) was obtained from WDNR's *Quick Look-Up Table for Indoor Air Vapor Action Levels and Vapor Risk Screening Levels* , based on December 2015 U.S. EPA Regional Screening Level Tables

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August 2, 2016

Mr. John Feeney
Remediation and Redevelopment Program
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
1155 Pilgram Road
Plymouth, WI 53073

RE: **GROUNDWATER INVESTIGATION WORKPLAN**
Former Quality Cleaners ♦ 1228 11th Avenue ♦ Grafton, WI 53024
BRRTS #02-46-560212

Dear Mr. Feeney:

Robert E. Lee & Associates, Inc., (REL) has prepared this work plan to conduct the groundwater portion of the site investigation of the chlorinated volatile organic compound (CVOC) release identified at 1228 11th Avenue, Grafton, Wisconsin (the Site). The Site is located in the Village of Grafton, Ozaukee County, Wisconsin. The Site is located in the southwest quarter of the northeast quarter of Section 24 Township 10 North, Range 21 East. The Wisconsin Transverse Mercator coordinates for the Site are 686017, 318271. The Site location is shown in Figure 1.

This work plan has been prepared in accordance with Chapter NR 716, Wisconsin Administrative Code (Wis. Adm. Code) and the Wisconsin Department of Natural Resources (WDNR) "Guidance for Conducting Environmental Response Actions (PUBL SW-157-92), March 2002."

BACKGROUND INFORMATION

The Site is the location of a small commercial building occupied by two beauty shops, who each lease a portion of the building. The third portion of the building is currently vacant, and was formerly occupied by Quality Cleaners for use as a dry cleaner. Quality Cleaners operated at the Site from the circa the late-1980s until the Fall of 2012 when dry cleaning operations ceased. The Site building is believed to have been constructed in the 1950s and was first occupied by the Village of Grafton post office.

During subsurface assessment activities completed in February and March 2013 by Moraine Environmental, chlorinated volatile organic compounds (CVOCs) used in dry cleaning processes were detected in soil and groundwater at the Site. A total of twelve soil borings (B-1 through B-10; and MW-1 and MW-2) were completed to evaluate soil quality and Borings MW-1 and MW-2 were completed as groundwater Monitoring Wells MW-1 and MW-2, respectively, to evaluate groundwater quality at the Site. Boring B-1 was placed inside the building near the former dry cleaning machine location. Borings B-4 and B-10 were also placed throughout the inside of the

building. Borings B-2 and B-3 were placed outside the building to the east. The soil boring locations are shown in Figure 2.

Based on the results of the soil and groundwater samples collected during the subsurface assessment, a release was reported to the WDNR on March 13, 2013. The WDNR subsequently assigned Bureau of Remediation and Redevelopment Tracking System (BRRTS) #02-46-560212 to the Site and requested that a site investigation be completed to evaluate the extent of the chlorinated solvent release in soil and groundwater at the Site. On October 7, 2013, REL was retained by Barbara and Gerald Kuehl to complete the investigation of the chlorinated solvent release at the Site.

Based on the laboratory analytical results of soil samples collected from beneath the Site building slab and given that tenants occupy the Building, REL completed the vapor intrusion investigation at the Site between January and April 2014. Monitoring Wells MW-1 and MW-2 were also sampled by REL during April 2014. A total of three sub-slab samples (SSV-1 through SSV-3) paired with indoor air samples (IA-1 through IA-3) and two outdoor air samples (OA-1 and OA-2) were completed to evaluate the vapor intrusion pathway at the Site. Sub-slab and paired indoor air samples SSV-1/IA-1 and SSV-2/IA-2 were collected from within the Site building, near the location of the former dry cleaning machine and in the hallway entrance to the hair stylist tenant spaces. Sub-slab and paired indoor air sample SSV-3/IA-3 was collected off-site from within the adjacent property building (1224 11th Avenue). Laboratory analysis detected concentrations of tetrachloroethene (PCE) excess of the vapor risk screening level (VRSL) in sub-slab samples collected from within the Site building. In addition, concentrations of PCE in excess of the vapor action level (VAL) were detected in the paired indoor air samples. CVOCs were not detected in excess of WDNR standards in the sub-slab and paired indoor air samples collected from the adjacent property building. Concentrations of PCE in excess of the Chapter NR 140, Wis. Adm. Code enforcement standard were detected in both MW-1 and MW-2.

Results for the vapor intrusion sampling was previously submitted to the WDNR and based on the results, the WDNR required the installation of a vapor mitigation system in the Site building. The vapor sub-slab depressurization system (SSDS) was installed by Radon Abatement on August 25, 2014 to mitigate vapor intruding from source soil located beneath the building. A maintenance system plan for the operation of the SSDS that includes semi-annual evaluation and maintenance of the system has been completed and approved by the WDNR. An evaluation of the SSDS was recently completed by Radon Abatement during June 2016. The results of the system evaluation indicated that the Site building is being abated efficiently and safely for occupancy.

Further soil investigation and groundwater sampling was performed at the Site on April 26, 2016. The soil investigation consisted of the completion of eight Geoprobe® borings (B-11 through B-18) to a maximum depth of 7 feet below grade (fbg). Bedrock was encountered in each of the borings between 3 and 7 fbg. The borings were placed outside the Site building to determine the magnitude and extent of soil contamination at the Site. Soil boring locations are shown in Figure 2. Soil samples were collected from the borings at 2-foot continuous sampling intervals using hydraulic push sampling methods. All down-hole drilling and sampling equipment was cleaned prior to use on-site and between borings. Each soil sample was described in the field by an REL geologist or environmental scientist. The soil samples were

properly containerized for field-screening using a photoionization detector (PID) and possible laboratory analysis. A minimum of one soil sample from each boring was submitted to Synergy Environmental Lab of Appleton, Wisconsin for laboratory analysis of volatile organic compounds (VOCs). Upon completion of soil sampling, the borings were abandoned with granular bentonite and the ground surface restored. Further documentation of the completion of the soil borings will be provided in the site investigation report, which will be prepared and submitted to the WDNR upon completion of the Site investigation.

Laboratory analysis detected concentrations of PCE, trichloroethene (TCE), and/or cis-1,2-dichloroethene in excess of Chapter NR 720, Wis. Adm. Code groundwater pathway residual contaminant levels (RCLs) in Borings B-11, B-12, and B-14. In addition, concentrations of benzene were also detected in excess of the groundwater pathway RCLs in Borings B-12 and B-17. The benzene results were detected between the laboratory limits of detection and quantitation. With exception of PCE detected in Boring B-1 (located within the Site building), concentrations of CVOCs were not detected in excess of the non-industrial direct contact. **Based on the results of the soil investigation, REL believes that the extent of soil contamination at the Site is adequately characterized and defined.** The soil analytical results are summarized in the data table included in Attachment A. Soil laboratory analytical report for Borings B-10 through B-18 is included in Attachment B. Laboratory analysis indicates that concentrations of PCE decreased in Monitoring Wells MW-1 and MW-2 from the previous sampling events; however, PCE remains in excess of the Chapter NR 140, Wis. Adm. Code enforcement standards in groundwater at the Site. The ground analytical results are summarized in the data table included in Attachment A. Groundwater laboratory analytical report for the April 2014 and April 2016 sampling events are included in Attachment B.

WORK PLAN

The overall goal of the groundwater investigation is to define the extent of the CVOC release in groundwater at the Site. The Site will be investigated to the limits of the applicable WDNR standards for soil, groundwater, and vapor intrusion, as necessary.

REL's proposed investigation is designed to make maximum use of existing information, satisfy the requirements outlined by the WDNR, minimize the total cost, and allow for an expedient project completion. All work will be completed using currently accepted hydrogeologic and engineering methods, and shall be in conformance with the provisions of Chapter NR 140, NR 141, NR 500, NR 600, and NR 700 series of the Wis. Adm. Code.

The work plan includes the following tasks:

- Task 1 – Site scoping.
- Task 2 – Groundwater investigation.
- Task 3 – Reporting.

Each task is described in greater detail as follows:

Task 1 - Site Scoping

The purpose of site scoping is to ensure the scope and detail of the proposed site investigation is appropriate to the complexity of the Site. The Site geology, type of contamination, potential receptors, and proximity to other sources of contamination all affect the complexity of a site investigation. Additional information on Site geology and Site scoping are presented as follows:

Geologic and Hydrogeologic Conditions

The Village of Grafton, Wisconsin 7.5-minute United States Geological Survey (USGS) Topographic Quadrangle Map (1976) shows the surface elevation of the study area at 755 feet above mean sea level. Topography in the vicinity of the Site is gently sloping to the south towards the Milwaukee (Figure 1). The Milwaukee River is located approximately 1,000 feet east of the Site.

Based on regional information from *Pleistocene Stratigraphic Units of Wisconsin*, surficial sediments are composed of glacial till of the Ozaukee Member of the Kewaunee Formation (Mickelson, 1984). The Ozaukee Member till contains pebbly, clayey, silty till and is associated with lake sediment. The color of the clay fractions in the till ranges from light reddish-brown or pinkish gray to light gray. The till ranges from hard and blocky to crumbly when dry and is very plastic when wet. Soil encountered during the completion of borings at the Site primarily consists of a silty loam and sandy clay underlain by dolomite bedrock that was encountered between 3 and 7 fbg.

Based on regional information gathered from the *Groundwater Resources of Southeastern Wisconsin*, a shallow and a deep bedrock aquifer are present at the Site (WGNHS and SRPC, 2002 and Kammerer, 1995). The shallow bedrock aquifer consists of Silurian-aged dolomite of the Racine Formation. The Racine Formation is described as a medium-to-coarse grained, thin-to-thick bedded, very light-to-light gray, fossiliferous dolomite. The underlying deep bedrock aquifer consists of sandstone rock.

The shallow water table is often a subdued expression of surface topography. Shallow groundwater generally flows from areas of groundwater recharge, such as hills and broad uplands, to areas of groundwater discharge, such as wetlands, rivers, and lakes. Based on surface topography, local shallow groundwater is expected to flow in a westerly direction towards the Milwaukee River. Other manmade features such as wells, roads, filled areas, and drainage ditches may alter the natural shallow groundwater flow direction.

Site Investigation Scoping

As required by Chapter NR 716.07, Wis. Adm. Code, the following items were evaluated to ensure that the scope and detail of the field investigation were appropriate to the complexity of the Site:

"History of the site or facility, including industrial, commercial, or other land uses that may have been associated with one or more hazardous substance discharges at the site or facility."

- The Site building is believed to have been constructed in the 1950s and was first occupied by the Village of Grafton post office. Quality Cleaners operated at the Site

from the circa the late-1980s/early-1990s until the Fall of 2012 when dry cleaning operations ceased. Currently, the Site is occupied by two beauty shops, who lease space in the building.

"Knowledge of the type of contamination and the amount of the contamination."

- Results of the soil, groundwater, and vapor/indoor air sampling activities at the Site identified the presence of CVOCs in soil, groundwater, and sub-slab/indoor air samples from the Site building. The amount of contamination at the Site is unknown.

"History of previous hazardous substance discharges or environmental pollution."

- There is no record of prior environmental issues at the Site.

"Environmental media affected or potentially affected by the contamination."

- The environmental media impacted by the contamination is anticipated to be limited to soil and groundwater at the Site; and vapor migration into the Site building.

"Location of the site or facility, and its proximity to other sources of contamination."

- The Site is located in a mixed commercial/residential land use area. Based on a review of the Remediation and Redevelopment Sites Map, the nearest identified property with other sources of contamination is a closed Environmental Repair Program (ERP) case, located across the street, at 1229 11th Avenue. The closed ERP site is identified as Ol Tyme Grafton Inc. (BRRTS #02-46-543784. Information provided on the Bureau of Remediation and Redevelopment Tracking System (BRRTS) indicates that the ERP site was the former location of Grafton Dry Cleaners. During August 2005, a chlorinated solvent release was reported to the WDNR, as the result of chlorinated solvents detected in soil. The Site was closed by WDNR during January 2006 by a no further action request under Chapter NR 708.09, Wis. Adm. Code.

"Need for permission from property owners to allow access to the site or facility and to adjacent or nearby properties."

- Permission from adjacent or nearby properties will be needed to conduct the groundwater investigation at the Site.

"Potential or known impacts to receptors, including public and private water supplies; buildings and other cultural features; and utilities or other subsurface improvements. This evaluation shall include mapping the location of all water supply wells within a 1,200-foot radius of the outermost edge of contamination."

- Potable water for the area is provided by the Village of Grafton. The municipal distribution system derives its drinking water from six municipals wells (Well #2, #3, #4, #5, #6, and #7) located throughout the village. The locations of the municipal wells are as follows:

  Well #2 – 906 Falls Street
  Well #3 – 1980 Cheyanne Court
  Well #4 – 438 9th Avenue
  Well #5 – 1501 1st Avenue
  Well #6 – 215 Oak Street

Well #7 – 1985 Falls Road

Based on the addresses of the wells, there are no municipal wells located within a 1,200-foot radius of the Site.

"Potential for impacts to species, habitat, or ecosystems sensitive to the contamination; wetlands; outstanding resource waters and exceptional resource waters; and sites or facilities of historical or archaeological significance."

- The proposed investigative activities will be performed on the Site in a developed area. There are no known potential impacts to threatened or endangered species; species, habitats, or ecosystems sensitive to the contamination; outstanding resource waters or exceptional resource waters; or sites or facilities of historical or archaeological significance at this time.

"Potential interim and remedial actions applicable to the site or facility and the contamination."

- Currently, no potential interim actions related to groundwater have been completed at the Site. Remedial action will be evaluated following definition of the extent of soil and/or groundwater contamination.

"Immediate or interim actions already taken or in progress, including any evaluations made of whether an interim action is needed at the site or facility."

- No immediate or interim actions related to groundwater have been conducted, nor appear necessary at the Site.

"Any other items, including climatological conditions and background water or soil quality information that may affect the scope or conduct of the site investigation."

- No other items were identified that may potentially impact the scope of this investigation.

Task 2 - Groundwater Investigation

The groundwater investigation will be implemented under Task 2. The goal of the investigative work is to evaluate the extent CVOC is in the Site's groundwater. Appropriate quality assurance and quality control procedures will be followed during investigative activities, including those specified in Chapter NR 716.13, Wis. Adm. Code, to ensure that accurate data will be collected.

Seven (7) soil borings will be completed for the purpose of installing groundwater monitoring wells and a piezometer at the Site. Additional borings may be advanced, as necessary, to define the extent of the CVOC groundwater contaminant plume during subsequent mobilizations, based on the laboratory results of the initial round of groundwater samples collected from the newly installed wells. The borings will be completed using a hollow stem auger drilling methods until the top of the bedrock surface is encountered in each boring. Soil samples will be collected at two-foot continuous intervals from the borings for field-screening purposes until bedrock surface is reached. Each soil sample will be described in the field by an REL geologist or environmental scientist. Soil samples will be immediately preserved for potential laboratory analysis and subjected to field screening using a MiniRAE 3000 photoionization detector (PID). Based on soil sampling results from the soil investigation at the Site, it is believed the extent of soil

contamination has been adequately defined, thus REL does not anticipate submitting soil samples for laboratory analysis.

WDNR Boring Log Form 4400-122 will be completed for each boring and will include a soil description, the method of sampling, field screening results, sample depth, and elevation corrected to USGS datum. Soil drill cuttings generated from investigation activities will be placed in 55-gallon steel drums and temporarily stored on-site, pending laboratory analysis results.

Upon completion of soil sampling activities to the top of the bedrock surface, the borings will be further advanced into the bedrock using air rotary drilling methods to facilitate the construction of the monitoring wells and piezometer. Six (6) monitoring wells will be constructed of 2-inch diameter polyvinyl chloride (PVC) pipe with 15 feet of 0.010-inch slot screen placed from 5 to 20 fbg to intersect the groundwater table. No glues, solvents, or lubricants will be used in the well construction. One (1) piezometer will be constructed of 2-inch diameter polyvinyl chloride (PVC) pipe with 5 feet of 0.010-inch slot screen placed from 30 to 35 fbg.

The monitoring points will be completed with flushmount protective covers. All wells will be permanently labeled with the well name and number. The horizontal and vertical locations of the monitoring points will be surveyed to determine the ground surface and groundwater elevation. This data will be utilized to determine groundwater flow direction and the horizontal gradient. All downhole drilling and sampling equipment will be cleaned prior to use on-site and between borings. The proposed monitoring well and piezometer locations are shown in Figure 3.

Following installation, REL personnel will develop the monitoring wells using a variable capacity bailer or centrifugal pump to remove the effects of drilling, well installation, and to maximize well yield. Development will continue until ten saturated well volumes are removed or the wells produced sediment-free water. All well development and sampling equipment will be thoroughly cleaned between wells. Development water will be placed in 55-gallon steel drums and temporarily stored on-site pending the results of the groundwater sampling.

Approximately one week following development and after the wells have stabilized, the monitoring points will be sampled using low-flow sampling techniques in accordance with WDNR Groundwater Sampling Procedures (WDNR Publication No. PUBL 037-96 and PUBL 038-96). Prior to sampling, groundwater elevation data will be measured and recorded at each monitoring point. Groundwater samples will be submitted to a WDNR-certified laboratory for analysis of VOCs. Additional rounds of groundwater sampling may be completed on a quarterly basis, until a stable or decreasing trend in contaminant concentrations is observed at the Site.

Task 3 - Reporting

Upon completion of the groundwater investigation activities, the data will be evaluated and conclusions made as to the degree and extent of the CVOC contamination. REL will utilize the procedures described in this work plan for the complete investigation, unless the WDNR establishes new requirements. If applicable, a case closure request will be included with the site investigation report.

An evaluation of potential remedial actions will be performed. These alternatives will be studied, and a cost for each alternative will be provided. A recommended action will be described, and a course of action will be detailed in the remedial action plan.

PROBABLE SCHEDULE

Work can begin immediately upon WDNR concurrence and notice to proceed with this workplan. We anticipate the groundwater monitoring wells and piezometer can be installed within four weeks of authorization to proceed, pending access is granted to off-site properties. The newly installed wells will be developed within two weeks following installation. The first round of groundwater monitoring will be completed within one week of well development. Subsequent rounds of groundwater samples will be completed on a quarterly basis or three months later. Data evaluation will occur after receipt of the laboratory analysis of each groundwater sampling event; and tabulated results will be provided to WDNR electronically, as needed. A Site Investigation Report providing a summary of the investigative results, conclusions, and any further recommendations will be completed and submitted to WDNR after completion of this scope of work, and/or the extent of CVOCs in groundwater has been adequately defined.

We trust this information meets your needs. Please feel free to contact this office, if you have any questions or concerns regarding the proposed work plan.

Sincerely,

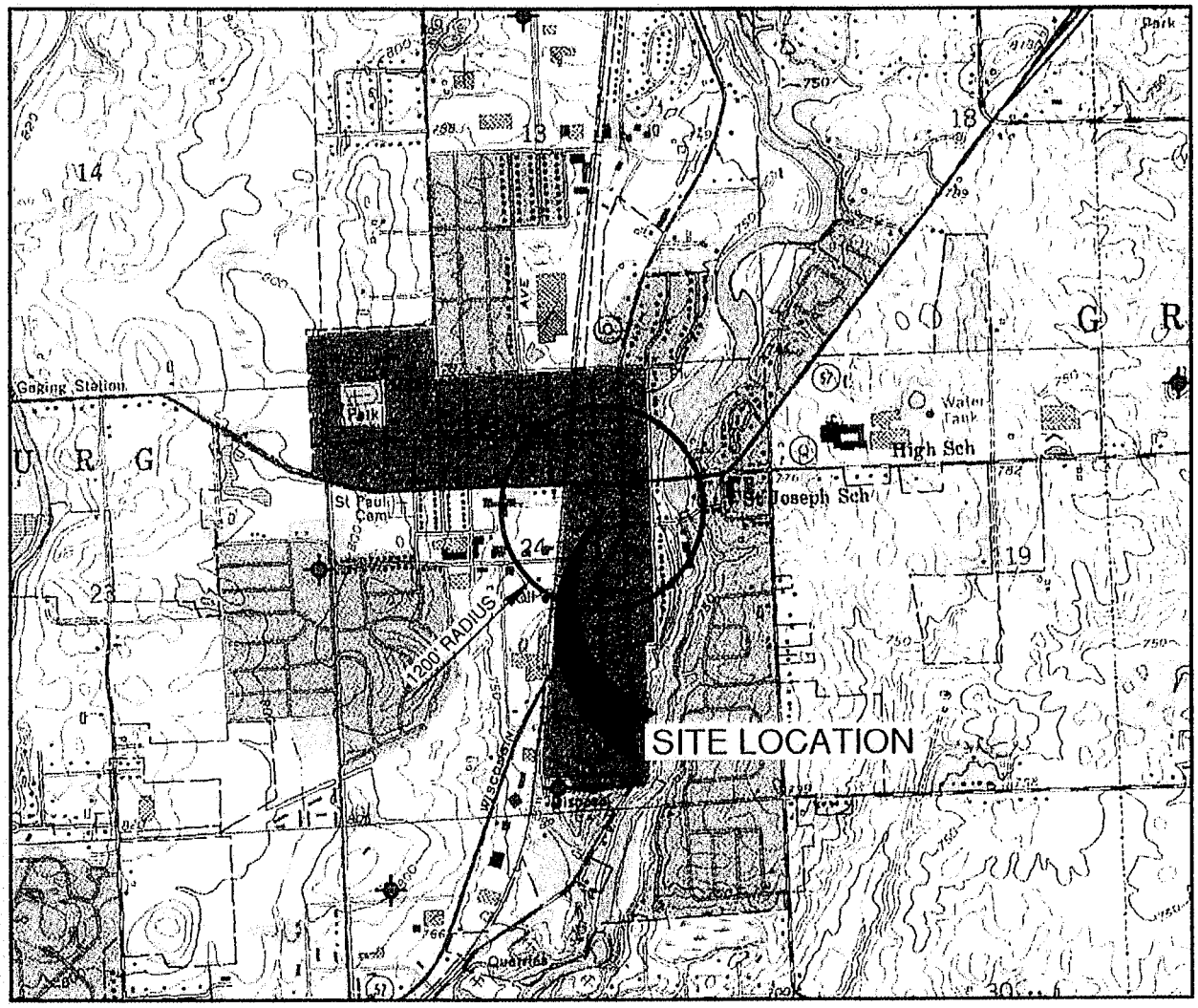
ROBERT E. LEE & ASSOCIATES, INC.

Nicole L. LaPlant
Senior Project Geologist

Bruce D. Meissner, PG, Principal
Environmental Services Manager

NLL/BDM/NJM

ENC.



MAP USED - CEDARBURG QUAD - 1994

SITE LOCATION AND LOCAL TOPOGRAPHY

FORMER QUALITY CLEANERS
1226 11TH AVENUE
GRAFTON, WISCONSIN

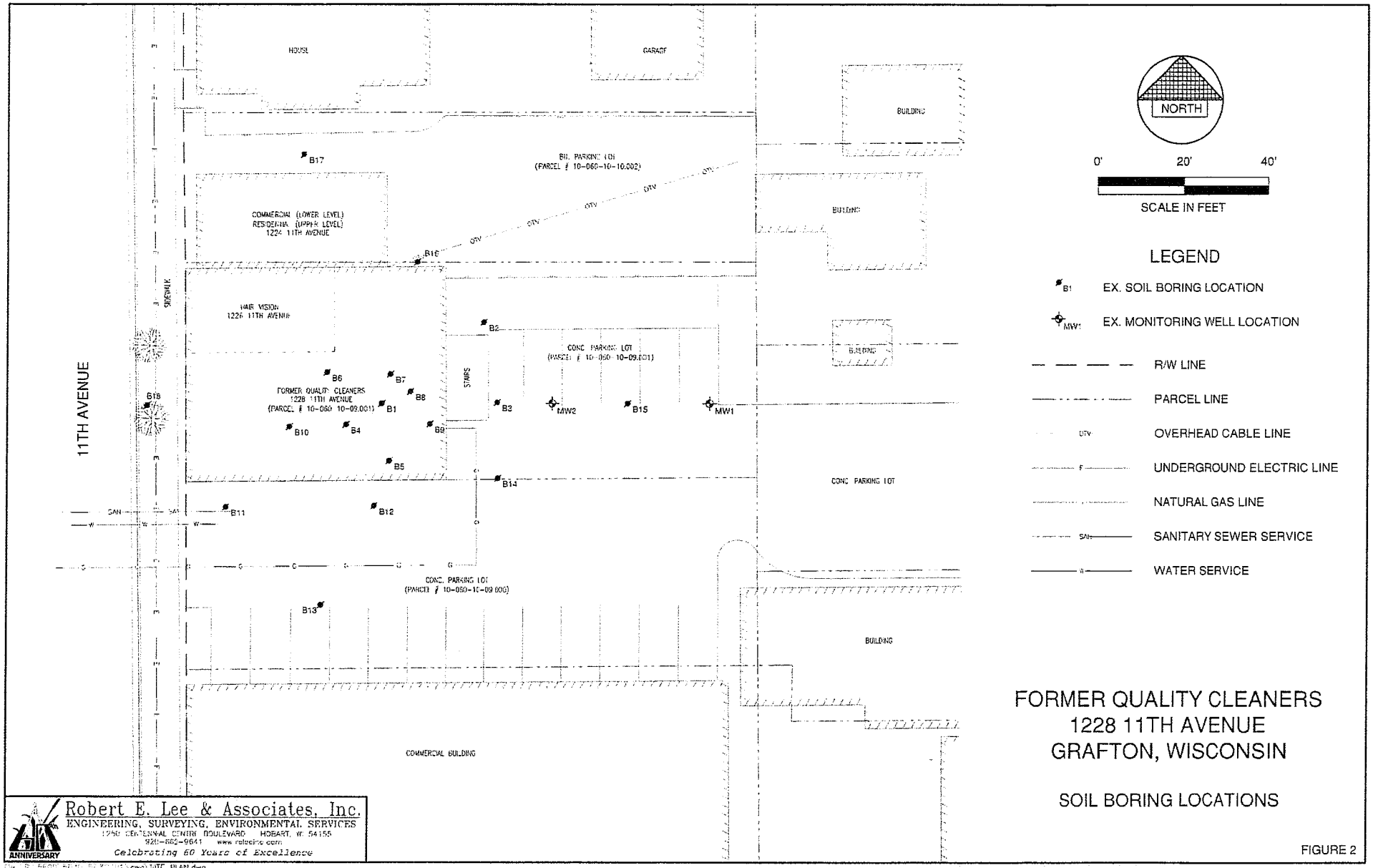
1" = 2000'

APPROXIMATE WELL LOCATION

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.relesinc.com
Celebrating 60 Years of Excellence

FIGURE 1

File: R:\5600\5630\5630001\dwg\LOCATION MAP.dwg
Plot Date: Aug 01, 2016 - 4:26pm



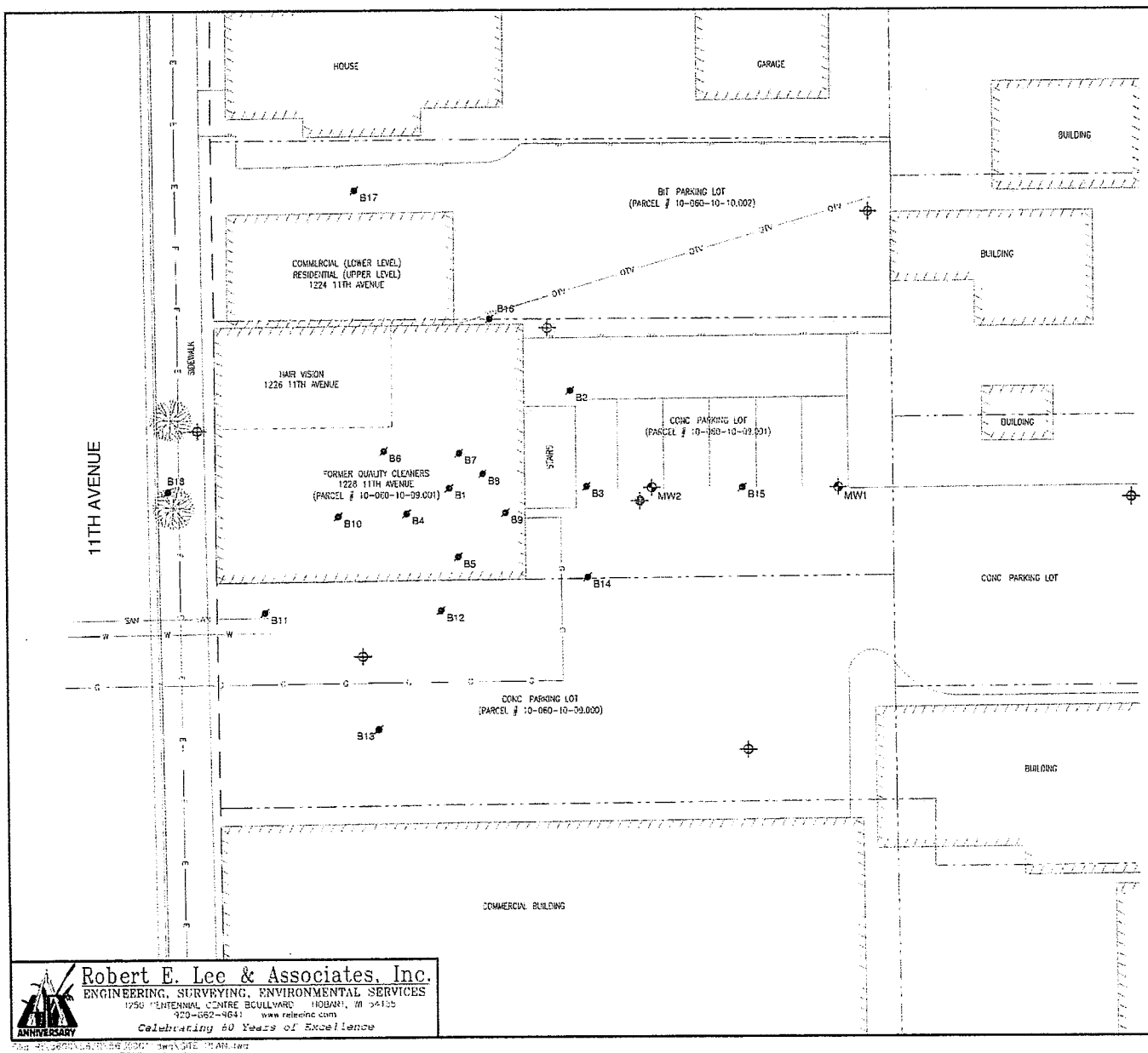
FORMER QUALITY CLEANERS
1228 11TH AVENUE
GRAFTON, WISCONSIN

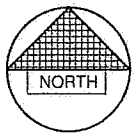
SOIL BORING LOCATIONS

FIGURE 2

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.relecino.com
Celebrating 60 Years of Excellence

Plot Date: Aug 01, 2016 - 8:42am





0' 20' 40'

SCALE IN FEET

LEGEND

- B1 — EX. SOIL BORING LOCATION
- MW1 — EX. MONITORING WELL LOCATION
- PROPOSED PIEZOMETER LOCATION
- PROPOSED MONITORING WELL LOCATION
- R/W LINE
- PARCEL LINE
- OHV — OVERHEAD CABLE LINE
- E — UNDERGROUND ELECTRIC LINE
- G — NATURAL GAS LINE
- SAN — SANITARY SEWER SERVICE
- W — WATER SERVICE

FORMER QUALITY CLEANERS
1228 11TH AVENUE
GRAFTON, WISCONSIN

PROPOSED MONITORING WELL AND PIEZOMETER LOCATIONS

FIGURE 3

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releeinc.com
Celebrating 50 Years of Excellence

Plot Date: Aug 01, 2019 - 11:14am

A

ATTACHMENT A

SOIL AND GROUNDWATER ANALYTICAL RESULTS TABLES

Table 1: VOC Soil Analytical Results Summary
Former Quality Cleaners; Grafton, Wisconsin

Sample ID and Depth	Date Sampled	Relevant and Significant VOC Analytical Results (ug/kg)																		
		Benzene	Bromobenzene	Bromodichloromethane	Bromoform	tert-Butylbenzene	sec-Butylbenzene	n-Butylbenzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	Dichlorodifluoromethane
Non-Industrial Direct Contact RCL		1,490	354,000	390	23,000	183,000	145,000	108,000	854	392,000	---	422	171,000	907,000	253,000	8	7,600	3,480	397,000	376,000	135,000
Groundwater Pathway RCL		5.1	---	0.3	2.3	---	---	---	3.9	135 S	226.6	3.3	13.5	---	---	0.2	32	144	1,152 S	1,168	3,086 3
B-1 (2')	2/21/2013	<250	<250	<250	<259	<250	<250	<404	<250	<250	<250	<250	<250	<250	<250	<823	<250	<250	<250	<444	<250
B-2 (6')	2/21/2013	<25	<25	<25	<25 9	<25	<25	<40 4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-3 (5')	2/21/2013	<25	<25	<25	<25 9	<25	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-4 (3-4')	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40 4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-4 (6')	3/18/2013	<62.5	<62 5	<62 5	<64.7	<62 5	<62 5	<101	<62 5	<62 5	<62 5	<62 5	<62 5	<62 5	<62.5	<206	<62 5	<62 5	<62 5	<111	<62 5
B-5 (8 inches)	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40 4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-6 (1')	3/18/2013	<62 5	<62.5	<62 5	<64 7	<62 5	<62 5	<101	<62 5	<62 5	<62 5	<62 5	<62 5	<62 5	<62 5	<206	<62 5	<62 5	<62 5	<111	<62 5
B-6 (5')	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-7 (2')	3/18/2013	<50	<50	<50	<51 8	<50	<50	<80.8	<50	<50	<50	<50	<50	<50	<50	<165	<50	<50	<50	<88 8	<50
B-7 (4')	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40 4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-8 (4')	3/18/2013	<50	<50	<50	<51 8	<50	<50	<80 8	<50	<50	<50	<50	<50	<50	<50	<165	<50	<50	<50	<88 8	<50
B-9 (1')	3/18/2013	<100	<100	<100	<104	<100	<100	<162	<100	<100	<100	<100	<100	<100	<100	<329	<100	<100	<100	<178	<100
B-9 (5')	3/18/2013	<62 5	<62 5	<62 5	<64 7	<62 5	<62.5	<101	<62 5	<62 5	<62 5	<62 5	<62 5	<62 5	<62 5	<206	<62 5	<62.5	<62 5	<111	<62 5
B-10 (3')	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40 4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-10 (5')	3/18/2013	<25	<25	<25	<25 9	<25	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<82 3	<25	<25	<25	<44 4	<25
B-11 (1-3')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-12 (2-4')	4/26/2016	16.3 J	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-13 (1-3')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-14 (2-4')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-14 (4-6')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-15 (2-4')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-16 (2-4')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-17 (2-4')	4/26/2016	26.1 J	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43
B-18 (2-4')	4/26/2016	<16	<39	<15	<23	<35	<36	<86	<21	<39	<45	<26	<250	<29	<32	<78	<31	<30	<30	<39	<43

Key:
VOC - Volatile Organic Compounds
J - Analyte detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation
ug/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
--- - Not included on WDNR's RR Program RCL Spreadsheet (December 2015)
5.5 - Individual Direct Contact Residual Contamination Level (RCL) Exceeded
5.5 - Groundwater Pathway RCL Exceeded
* - Cumulative Direct Contact Exceeded for Multiple Contaminants at Sample Location
- - Not Analyzed

Note:
1. Samples B-1 through B-10 were collected by Mostone Environmental

Table 1: VOC Soil Analytical Results Summary
Former Quality Cleaners; Grafton, Wisconsin

Sample ID and Depth	Date Sampled	Relevant and Significant VOC Analytical Results (ug/kg)															
		1,2-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	2,2-Dichloropropane	1,3-Dichloropropane	Di-isopropyl ether	1,2-Dibromomethane (EDB)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	p-Isopropyltoluene	Methyl-tert-butyl ether (MTBE)	Methylene Chloride	Napthalene
Non-Industrial Direct Contact RCL		606	4,720	342,000	156,000	1,560,000	1,330	191,000	1,490,000	2,260,000	47	2,470	1,510	268,000	162,000	59,400	60,700	5,150
Groundwater Pathway RCL		3.8	480.4	5	41.2	62.6	3.3	---	---	---	0.0282	1,570	---	---	---	27	2.6	658.12
B-1 (2')	2/21/2013	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<264	<250	<250	<250	<250	<250
B-2 (6')	2/21/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-3 (5')	2/21/2013	<25	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-4 (3-4')	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-4 (6')	3/18/2013	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<66	<62.5	<62.5	<62.5	<62.5	<62.5
B-5 (8 inches)	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-6 (3')	3/18/2013	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<66	<62.5	<62.5	<62.5	<62.5	<62.5
B-6 (5')	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-7 (2')	3/18/2013	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<52.8	<50	<50	<50	<50	<50
B-7 (4')	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-8 (4')	3/18/2013	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<52.8	<50	<50	<50	<50	<50
B-9 (1')	3/18/2013	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<106	<100	<100	<100	<100	<100
B-9 (5')	3/18/2013	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<66	<62.5	<62.5	<62.5	<62.5	<62.5
B-10 (3')	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-10 (5')	3/18/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25
B-11 (1-3')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-12 (2-4')	4/26/2016	<30	<25	<29	960	54 J	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-13 (1-3')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-14 (2-4')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-14 (4-6')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-15 (2-4')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-16 (2-4')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-17 (2-4')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87
B-18 (2-4')	4/26/2016	<30	<25	<29	<21	<24	<25	<100	<31	<12	<35	<27	<110	<37	<56	<25	<220	<87

Key
VOC = Volatile Organic Compounds
J = Analyte detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation
ug/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
--- = Not included on WDNR's RR Program RCL Spreadsheet (January 2015)
5.5 = Individual Direct Contact Residual Contamination Level (RCL) Exceeded
5.5 = Groundwater Pathway RCL Exceeded
* = Cumulative Direct Contact Exceeded for Multiple Contaminants at Sample Location
NA = Not Analyzed

Note:
1 Samples B-1 through B-10 were collected by Meramec Environmental

Table 1: VOC Soil Analytical Results Summary
Former Quality Cleaners; Grafton, Wisconsin

Sample ID and Depth	Date Sampled	Relevant and Significant VOC Analytical Results (ug/kg)														
		n-Propylbenzene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes
Non-Industrial Direct Contact RCL		---	753	2,590	30,700	818,000	22,000	640,000	---	1,480	1,260	1,230,000	89,800	182,000	67	260,000
Groundwater Pathway RCL		---	0.2	53.4	4.5	1,107	408	---	140.2	3.2	3.6	---	1,382 (combined)		0.1	3,960
B-1 (2')	2/21/2013	<250	<250	<250	***68,700***	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<750
B-2 (6')	2/21/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-3 (5')	2/21/2013	<25	<25	<25	***63 J***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-4 (3-4')	3/18/2013	<25	<25	<25	***5,070***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-4 (6')	3/18/2013	<62.5	<62.5	<62.5	***11,400***	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<187.5
B-5 (8 inches)	3/18/2013	<25	<25	<25	***7,240***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-6 (1')	3/18/2013	<62.5	<62.5	<62.5	***17,900***	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<187.5
B-6 (5')	3/18/2013	<25	<25	<25	***4,420***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-7 (2')	3/18/2013	<50	<50	<50	***6410***	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<150
B-7 (4')	3/18/2013	<25	<25	<25	***717***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-8 (4')	3/18/2013	<50	<50	<50	***9,020***	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<150
B-9 (1')	3/18/2013	<100	<100	<100	***28,300***	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<300
B-9 (5')	3/18/2013	<62.5	<62.5	<62.5	***18,300***	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<62.5	<187.5
B-10 (3')	3/18/2013	<25	<25	<25	***1,090***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-10 (5')	3/18/2013	<25	<25	<25	***4,250***	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-11 (1-3')	4/26/2016	<35	<13	<29	***65 J***	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-12 (2-4')	4/26/2016	<35	<13	<29	***119 J***	<31	<85	<120	<40	<33	***54 J***	<60	<78	<89	<10	<99
B-13 (1-3')	4/26/2016	<35	<13	<29	<54	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-14 (2-4')	4/26/2016	<35	<13	<29	<54	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-14 (4-6')	4/26/2016	<35	<13	<29	***66 J***	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-15 (2-4')	4/26/2016	<35	<13	<29	<54	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-16 (2-4')	4/26/2016	<35	<13	<29	<54	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99
B-17 (2-4')	4/26/2016	<35	<13	<29	<54	110	<85	<120	<40	<33	<42	<60	<78	<89	<10	148 J
B-18 (2-4')	4/26/2016	<35	<13	<29	<54	<31	<85	<120	<40	<33	<42	<60	<78	<89	<10	<99

Key:
VOC = Volatile Organic Compounds
J = Analyte detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation
ug/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
--- = Not included on WDNR's RR Program RCL Spreadsheet (January 2015)
5.5 = Individual Direct Contact Residual Contamination Level (RCL) Exceeded
5.5 = Groundwater Pathway RCL Exceeded
* = Cumulative Direct Contact Exceeded for Multiple Contaminants at Sample Location
NA = Not Analyzed

Note:
1 Samples B-1 through B-10 were collected by Moraine Environmental

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
FORMER QUALITY CLEANERS, GRAFTON, WI

	NR 140 ES	NR 140 PAL	MW-1			MW-2		
			3/25/2013*	4/9/2014	4/26/2016	3/25/2013*	4/9/2014	4/26/2016
VOCs (µg/l)								
Benzene	5	0.5	<0.41	<0.24	<0.44	<8.2	<0.24	<0.44
Bromobenzene	NE	NE	<0.82	<0.32	<0.48	<16.4	<0.32	<0.48
Bromodichloromethane	0.6	0.06	<0.56	<0.37	<0.46	<11.2	<0.37	<0.46
Bromoform	4.4	0.44	<0.94	<0.35	<0.46	<18.8	<0.35	<0.46
tert-Butylbenzene	NE	NE	<0.97	<0.36	<1.1	<19.4	<0.36	<1.1
sec-Butylbenzene	NE	NE	<0.83	<0.33	<1.2	<17.8	<0.33	<1.2
n-Butylbenzene	NE	NE	<0.93	<0.35	<1	<18.6	<0.35	<1
Carbon tetrachloride	5	0.5	<0.49	<0.33	<0.51	<9.8	<0.33	<0.51
Chlorobenzene	NE	NE	<0.41	<0.24	<0.46	<8.2	<0.24	<0.46
Chloroethane	400	80	<0.97	<0.63	<0.65	<19.4	<0.63	<0.65
Chloroform	6	0.6	<1.3	<0.28	<0.43	<26.0	<0.28	<0.43
Chloromethane	30	3	<0.24	<0.81	*10.8*	<4.8	<0.81	<1.9
2-Chlorotoluene	NE	NE	<0.85	<0.21	<0.4	<17.0	<0.21	<0.4
4-Chlorotoluene	NE	NE	<0.74	<0.21	<0.63	<14.8	<0.21	<0.63
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<0.88	<1.4	<33.6	<0.88	<1.4
Dibromochloromethane	60	6	<0.81	<0.22	<0.45	<16.2	<0.22	<0.45
1,4-Dichlorobenzene	75	15	<0.95	<0.3	<0.49	<19.0	<0.3	<0.49
1,3-Dichlorobenzene	600	120	<0.87	<0.28	<0.52	<17.4	<0.28	<0.52
1,2-Dichlorobenzene	600	60	<0.83	<0.36	<0.46	<16.6	<0.36	<0.46
Dichlorodifluoromethane	1000	200	<0.99	< 0.44	<0.87	<19.8	1.23 J	<0.87
1,2-Dichloroethane	5	0.5	<0.36	<0.41	<0.48	<7.2	<0.41	<0.48
1,1-Dichloroethane	850	85	<0.99	<0.3	<1.1	<15.0	<0.3	<1.1
1,1-Dichloroethene	7	0.7	<0.75	<0.4	<0.65	<11.4	<0.4	<0.65
cis-1,2-Dichloroethene	70	7	<0.83	<0.38	<0.45	<16.6	<0.38	<0.45
trans-1,2-Dichloroethene	100	20	<0.89	<0.35	<0.54	<17.8	<0.35	<0.54
1,2-Dichloropropane	5	0.5	<0.49	<0.32	<0.43	<9.8	<0.32	<0.43
2,2-Dichloropropane	NE	NE	<0.62	<0.36	<3.1	<12.4	<0.36	<3.1
1,3-Dichloropropane	0.4	0.04	<0.61	<0.33	<0.42	<12.2	<0.33	<0.42
Di-isopropyl ether	NE	NE	<0.76	<0.23	<0.44	<15.2	<0.23	<0.44
1,2-Dibromoethane (EDB)	0.05	0.005	<0.56	<0.44	<0.63	---	<0.44	<0.63
Ethylbenzene	700	140	<0.54	<0.55	<0.71	<10.8	<0.55	<0.71
Hexachlorobutadiene	NE	NE	<0.67	<1.5	<2.2	<13.4	<1.5	<2.2
Isopropylbenzene	NE	NE	<0.59	<0.3	<0.82	<11.8	<0.3	<0.82
p-Isopropyltoluene	NE	NE	<0.67	<0.31	<1.1	<13.4	<0.31	<1.1
Methylene Chloride	5	0.5	<0.43	<0.5	<1.3	<8.6	<0.5	<1.3
Methyl-tert-butyl ether (MTBE)	60	12	<0.61	<0.23	<1.1	<12.2	<0.23	<1.1
Naphthalene	100	10	<0.89	<1.7	<1.6	<17.8	<1.7	<1.6
n-Propylbenzene	NE	NE	<0.81	<0.25	<0.77	<16.2	<0.25	<0.77
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.45	<0.52	<4.0	<0.45	<0.52
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.33	<0.48	<18.4	<0.33	<0.48
Tetrachloroethene (PCE)	5	0.5	32.9	61	15.3	896	550	85
Toluene	800	160	0.67 J	<0.69	<0.44	<13.4	<0.69	<0.44
1,2,4-Trichlorobenzene	70	14	<0.97	<0.98	<1.7	<19.4	<0.98	<1.7
1,2,3-Trichlorobenzene	NE	NE	<0.74	<1.8	<2.7	<14.8	<1.8	<2.7
1,1,1-Trichloroethane	200	40	<0.90	<0.33	<0.84	<18	<0.33	<0.84
1,1,2-Trichloroethane	5	0.5	<0.42	<0.34	<0.48	<8.4	<0.34	<0.48
Trichloroethene (TCE)	5	0.5	<0.48	<0.33	<0.47	<9.6	0.39 J	<0.47
Trichlorofluoromethane	NE	NE	<0.79	<0.71	<0.87	<15.8	<0.71	<0.87
Trimethylbenzenes	480	96	<1.8	<3.6	<3.1	<36	<3.6	<3.1
Vinyl chloride	0.2	0.02	<0.18	<0.18	<0.17	<3.6	<0.18	<0.17
Xylene	2000	400	<2.63	<1.32	<3.1	<36	<1.32	<3.1
Geochemical Parameters								
Temperature (°C)	NE	NE	---	7.48	8.71	---	7.99	9.46
Conductivity (uS/cm)	NE	NE	---	4648	949	---	1473	635
DO (mg/L)	NE	NE	---	7.32	3.19	---	8.61	2.65
ORP (mV)	NE	NE	---	85.1	145.8	---	83.6	142.1
pH (su)	NE	NE	---	6.44	6.7	---	6.72	6.92

Key:
µg/L = Micrograms per liter
J = Analyte detected between laboratory limit of detection and limit of quantitation.
* = Samples were collected by Moraine Environmental, Inc.
--- = Not Analyzed
NE = Not Established
10 = Exceeds Chapter NR 140 Preventive Action Limit (PAL)
100 = Exceeds Chapter NR 140 Enforcement Standard (ES)

B

ATTACHMENT B

SOIL AND GROUNDWATER LABORATORY ANALYTICAL REPORTS (APRIL 2014 and APRIL 2016)

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

NICOLE LAPLANT
ROBERT E. LEE & ASSOCIATES
1250 CENTENNIAL CENTRE BLVD
HOBART, WI 54155

Report Date *16-Apr-14*

Project Name QUALITY CLEANERS FMR **Invoice #** E26800
Project # 5446-001

Lab Code 5026800A
Sample ID MW-1
Sample Matrix Water
Sample Date 4/9/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/11/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/11/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/11/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		4/11/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/11/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		4/11/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		4/11/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		4/11/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		4/11/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		4/11/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		4/11/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		4/11/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/11/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/11/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		4/11/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		4/11/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		4/11/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		4/11/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		4/11/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		4/11/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		4/11/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		4/11/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/11/2014	CJR	1
Hexachlorobutadiene	< 1 5	ug/l	1.5	4.8	1	8260B		4/11/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/11/2014	CJR	1

Project Name QUALITY CLEANERS FMR **Invoice #** E26800
Project # 5446-001

Lab Code 5026800A
Sample ID MW-1
Sample Matrix Water
Sample Date 4/9/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		4/11/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		4/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/11/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/11/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		4/11/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/11/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		4/11/2014	CJR	1
Tetrachloroethene	61	ug/l	0.33	1.1	1	8260B		4/11/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/11/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		4/11/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		4/11/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		4/11/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		4/11/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/11/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/11/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		4/11/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/11/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/11/2014	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		4/11/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		4/11/2014	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %			1	8260B		4/11/2014	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		4/11/2014	CJR	1

Project Name QUALITY CLEANERS FMR **Invoice #** E26800
Project # 5446-001

Lab Code 5026800B
Sample ID MW-2
Sample Matrix Water
Sample Date 4/9/2014

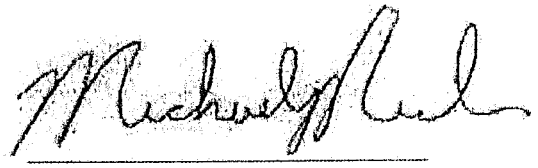
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/11/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		4/11/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		4/11/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		4/11/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/11/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		4/11/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		4/11/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		4/11/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		4/11/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		4/11/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		4/11/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		4/11/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/11/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		4/11/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		4/11/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		4/11/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		4/11/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		4/11/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		4/11/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		4/11/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		4/11/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		4/11/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		4/11/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		4/11/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/11/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		4/11/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		4/11/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		4/11/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		4/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/11/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/11/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		4/11/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/11/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		4/11/2014	CJR	1
Tetrachloroethene	550	ug/l	3.3	11	10	8260B		4/15/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/11/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		4/11/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		4/11/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		4/11/2014	CJR	1
Trichloroethene (TCE)	0.39 "J"	ug/l	0.33	1	1	8260B		4/11/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		4/11/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/11/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/11/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		4/11/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/11/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/11/2014	CJR	1
SUR - Toluene-d8	108	REC %			1	8260B		4/11/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		4/11/2014	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %			1	8260B		4/11/2014	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		4/11/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



R[illegible]ert E. Lee & Associates, Inc.
En[illegible]ring, Surveying, Environmental Services
4664 Golden Pond Park Court
Hobart, WI 54155
920 662 9641 FAX 920 662 9141

To ensure the[illegible] per handling of samples, please see the back for instructions.

CHAIN OF CUSTODY RE[illegible] RD

COC # 201392

Client: [illegible]

Project Name: [illegible] (Former)

Project Number: 6942-001 | BID #:

Environmental Program:
☐ LUST ☐ SDWA ☐ WPDES ☐ RCRA ☐ OTHER ____

Requested Turnaround Time
☑ Normal (10-15 DAYS) ☐ Rush
Date Needed: ____
Rushes accepted only w/prior notification

*Preservation Code
N = Nitric Acid (red) O = Sodium Hydroxide
H = Hydrochloric Acid U = Unpreserved (white)
M = Methanol S = Sulfuric Acid (green)

Sampler: Dan Eichstadt

Sample Type (Matrix)
DW = Drinking Water
GW = Groundwater
WW = Wastewater
Soil, Oil, Sludge, Air, Other:

Analyses Required:
(Note special detection limits or methods)

Filtered? (Y/N)	N												
Preservation *(Code)	H												
No. Of Containers	3	3											
		VOCs											

Sample Name	Date	Time		Lab	Field	Sample Type (Matrix)	No. Of Containers	Laboratory Sample I.D.	Remarks:
MW-1	4-9-14	1348	A/P		X	GW	3	502-6800A	
MW-2	4-9-14	1442	A/P		X	GW	3	B	
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						
			A/P						

Report to: Nicole LaPlant
Company: Robert E. Lee
Address: 1250 Centennial Centre
Hobart, WI 54155
Telephone: 920-662-9641

Invoice to: SAA
Company:
Address:

Telephone:

Relinquished By	Date	Time	Received By	Date	Time
1) [illegible]	4-9-14	1900 A/P			A/P
2)		A/P			A/P
3)		A/P			A/P
Received by Lab		8:00	4-10-14		A/P

A = AM P = PM

Laboratory Receiving Notes
Temperature of Contents Run / Ice °C
Custody Seal Intact Yes
Sample Condition
Sample pH

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

NICOLE LA PLANT
ROBERT E. LEE & ASSOCIATES
1250 CENTENNIAL CENTRE BLVD
HOBART, WI 54155

Report Date *16-May-16*

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941A
Sample ID B-11 1-3'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/5/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/5/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/5/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/5/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/5/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/5/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/5/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/5/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/5/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/5/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/5/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/5/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/5/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941A
Sample ID B-11 1-3'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/5/2016	CJR	
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/5/2016	CJR	
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/5/2016	CJR	
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/5/2016	CJR	
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/5/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/5/2016	CJR	
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/5/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
Tetrachloroethene	0.065 "J"	mg/kg	0.054	0.17	1	8260B		5/5/2016	CJR	
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/5/2016	CJR	
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/5/2016	CJR	
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/5/2016	CJR	
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/5/2016	CJR	
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/5/2016	CJR	
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/5/2016	CJR	
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/5/2016	CJR	
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/5/2016	CJR	
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/5/2016	CJR	
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/5/2016	CJR	
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/5/2016	CJR	
SUR - 1,2-Dichloroethane-d4	111	Rec %			1	8260B		5/5/2016	CJR	
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		5/5/2016	CJR	
SUR - Dibromofluoromethane	87	Rec %			1	8260B		5/5/2016	CJR	
SUR - Toluene-d8	105	Rec %			1	8260B		5/5/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941B
Sample ID B-12 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.6	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	0.0163 "J"	mg/kg	0.016	0.049	1	8260B		5/5/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/5/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/5/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/5/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/5/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/5/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/5/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/5/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/5/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/5/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
cis-1,2-Dichloroethene	0.96	mg/kg	0.021	0.068	1	8260B		5/5/2016	CJR	1
trans-1,2-Dichloroethene	0.054 "J"	mg/kg	0.024	0.076	1	8260B		5/5/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/5/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/5/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/5/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/5/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/5/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/5/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/5/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
Tetrachloroethene	0.119 "J"	mg/kg	0.054	0.17	1	8260B		5/5/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/5/2016	CJR	1
Trichloroethene (TCE)	0.054 "J"	mg/kg	0.042	0.13	1	8260B		5/5/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/5/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/5/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/5/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941B
Sample ID B-12 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		5/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		5/5/2016	CJR	1
SUR - Dibromofluoromethane	106	Rec %			1	8260B		5/5/2016	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941C
Sample ID B-13 1-3'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.3	%			1	5021		4/29/2016	NJC	
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/5/2016	CJR	
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/5/2016	CJR	
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/5/2016	CJR	
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/5/2016	CJR	
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/5/2016	CJR	
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/5/2016	CJR	
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/5/2016	CJR	
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/5/2016	CJR	
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/5/2016	CJR	
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/5/2016	CJR	
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/5/2016	CJR	
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/5/2016	CJR	
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/5/2016	CJR	
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/5/2016	CJR	
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/5/2016	CJR	
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/5/2016	CJR	
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/5/2016	CJR	
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/5/2016	CJR	
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/5/2016	CJR	
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/5/2016	CJR	
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/5/2016	CJR	
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/5/2016	CJR	
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/5/2016	CJR	
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/5/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/5/2016	CJR	
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/5/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		5/5/2016	CJR	
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/5/2016	CJR	
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/5/2016	CJR	
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/5/2016	CJR	
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/5/2016	CJR	
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/5/2016	CJR	
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/5/2016	CJR	
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/5/2016	CJR	
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/5/2016	CJR	
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/5/2016	CJR	
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/5/2016	CJR	
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/5/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941C
Sample ID B-13 1-3'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	113	Rec %			1	8260B		5/5/2016	CJR	
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		5/5/2016	CJR	
SUR - Dibromofluoromethane	112	Rec %			1	8260B		5/5/2016	CJR	
SUR - Toluene-d8	104	Rec %			1	8260B		5/5/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941D
Sample ID B-14 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		4/29/2016	NJC	
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/5/2016	CJR	
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/5/2016	CJR	
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/5/2016	CJR	
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/5/2016	CJR	
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/5/2016	CJR	
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/5/2016	CJR	
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/5/2016	CJR	
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/5/2016	CJR	
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/5/2016	CJR	
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/5/2016	CJR	
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/5/2016	CJR	
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/5/2016	CJR	
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/5/2016	CJR	
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/5/2016	CJR	
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/5/2016	CJR	
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/5/2016	CJR	
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/5/2016	CJR	
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/5/2016	CJR	
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/5/2016	CJR	
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/5/2016	CJR	
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/5/2016	CJR	
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/5/2016	CJR	
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/5/2016	CJR	
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/5/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/5/2016	CJR	
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/5/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		5/5/2016	CJR	
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/5/2016	CJR	
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/5/2016	CJR	
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/5/2016	CJR	
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/5/2016	CJR	
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/5/2016	CJR	
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/5/2016	CJR	
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/5/2016	CJR	
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/5/2016	CJR	
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/5/2016	CJR	
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/5/2016	CJR	
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/5/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941D
Sample ID B-14 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	102	Rec %			1	8260B		5/5/2016	CJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		5/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		5/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	109	Rec %			1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941E
Sample ID B-14 4-6'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.6	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/5/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/5/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/5/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/5/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/5/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/5/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/5/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/5/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/5/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/5/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/5/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/5/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/5/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/5/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/5/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/5/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/5/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/5/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/5/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/5/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/5/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/5/2016	CJR	1
Tetrachloroethene	0.066 "J"	mg/kg	0.054	0.17	1	8260B		5/5/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/5/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/5/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/5/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/5/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/5/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941E
Sample ID B-14 4-6'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		5/5/2016	CJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B		5/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			1	8260B		5/5/2016	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		5/5/2016	CJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941F
Sample ID B-15 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.7	%			1	5021		4/29/2016	NJC	
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/11/2016	CJR	
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/11/2016	CJR	
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/11/2016	CJR	
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/11/2016	CJR	
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/11/2016	CJR	
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/11/2016	CJR	
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/11/2016	CJR	
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/11/2016	CJR	
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/11/2016	CJR	
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/11/2016	CJR	
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/11/2016	CJR	
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/11/2016	CJR	
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/11/2016	CJR	
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/11/2016	CJR	
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/11/2016	CJR	
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/11/2016	CJR	
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/11/2016	CJR	
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/11/2016	CJR	
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/11/2016	CJR	
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/11/2016	CJR	
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/11/2016	CJR	
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/11/2016	CJR	
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/11/2016	CJR	
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/11/2016	CJR	
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/11/2016	CJR	
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/11/2016	CJR	
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/11/2016	CJR	
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/11/2016	CJR	
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/11/2016	CJR	
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/11/2016	CJR	
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/11/2016	CJR	
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/11/2016	CJR	
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/11/2016	CJR	
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/11/2016	CJR	
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/11/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/11/2016	CJR	
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/11/2016	CJR	
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/11/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/11/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/11/2016	CJR	
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		5/11/2016	CJR	
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/11/2016	CJR	
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/11/2016	CJR	
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/11/2016	CJR	
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/11/2016	CJR	
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/11/2016	CJR	
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/11/2016	CJR	
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/11/2016	CJR	
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/11/2016	CJR	
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/11/2016	CJR	
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/11/2016	CJR	
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/11/2016	CJR	
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/11/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941F
Sample ID B-15 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	103	Rec %			1	8260B		5/11/2016	CJR	I
SUR - Toluene-d8	98	Rec %			1	8260B		5/11/2016	CJR	I
SUR - 4-Bromofluorobenzene	97	Rec %			1	8260B		5/11/2016	CJR	I
SUR - 1,2-Dichloroethane-d4	105	Rec %			1	8260B		5/11/2016	CJR	I

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941G
Sample ID B-16 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/6/2016	5/6/2016	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/6/2016	5/6/2016	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/6/2016	5/6/2016	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/6/2016	5/6/2016	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/6/2016	5/6/2016	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/6/2016	5/6/2016	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/6/2016	5/6/2016	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/6/2016	5/6/2016	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/6/2016	5/6/2016	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/6/2016	5/6/2016	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/6/2016	5/6/2016	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/6/2016	5/6/2016	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/6/2016	5/6/2016	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941G
Sample ID B-16 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	109	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Dibromofluoromethane	97	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Toluene-d8	103	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941H
Sample ID B-17 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84 3	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	0.0261 "J"	mg/kg	0.016	0.049	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/6/2016	5/6/2016	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Butylbenzene	< 0 086	mg/kg	0.086	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/6/2016	5/6/2016	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/6/2016	5/6/2016	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/6/2016	5/6/2016	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Dichlorodifluoromethane	< 0 043	mg/kg	0.043	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethene	< 0 029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/6/2016	5/6/2016	MJR	1
trans-1,2-Dichloroethene	< 0 024	mg/kg	0.024	0.076	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichloropropane	< 0 031	mg/kg	0.031	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/6/2016	5/6/2016	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/6/2016	5/6/2016	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/6/2016	5/6/2016	MJR	1
Methylene chloride	< 0 22	mg/kg	0.22	0.7	1	8260B	5/6/2016	5/6/2016	MJR	1
Methyl tert-butyl ether (MTBE)	< 0 025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
Naphthalene	< 0 087	mg/kg	0.087	0.28	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0 11	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2,2-Tetrachloroethane	< 0 013	mg/kg	0.013	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0 093	1	8260B	5/6/2016	5/6/2016	MJR	1
Tetrachloroethene	< 0 054	mg/kg	0.054	0 17	1	8260B	5/6/2016	5/6/2016	MJR	1
Toluene	0 11	mg/kg	0.031	0.099	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,3-Trichlorobenzene	< 0 12	mg/kg	0.12	0.38	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0 13	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichlorofluoromethane	< 0 06	mg/kg	0.06	0 19	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0 28	1	8260B	5/6/2016	5/6/2016	MJR	1
Vinyl Chloride	< 0 01	mg/kg	0.01	0.031	1	8260B	5/6/2016	5/6/2016	MJR	1
m&p-Xylene	0 09 "J"	mg/kg	0.07	0 22	1	8260B	5/6/2016	5/6/2016	MJR	1
o-Xylene	0 058 "J"	mg/kg	0.029	0.092	1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941H
Sample ID B-17 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Dibromofluoromethane	105	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Toluene-d8	100	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941I
Sample ID B-18 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		4/29/2016	NJC	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/6/2016	5/6/2016	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/6/2016	5/6/2016	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/6/2016	5/6/2016	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/6/2016	5/6/2016	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/6/2016	5/6/2016	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/6/2016	5/6/2016	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/6/2016	5/6/2016	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/6/2016	5/6/2016	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/6/2016	5/6/2016	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/6/2016	5/6/2016	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/6/2016	5/6/2016	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/6/2016	5/6/2016	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/6/2016	5/6/2016	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/6/2016	5/6/2016	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/6/2016	5/6/2016	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/6/2016	5/6/2016	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/6/2016	5/6/2016	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/6/2016	5/6/2016	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/6/2016	5/6/2016	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/6/2016	5/6/2016	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/6/2016	5/6/2016	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/6/2016	5/6/2016	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/6/2016	5/6/2016	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/6/2016	5/6/2016	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941I
Sample ID B-18 2-4'
Sample Matrix Soil
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1
SUR - Toluene-d8	97	Rec %			1	8260B	5/6/2016	5/6/2016	MJR	1

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941J
Sample ID MW-1
Sample Matrix Water
Sample Date 4/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/3/2016	CJR	
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/3/2016	CJR	
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/3/2016	CJR	
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/3/2016	CJR	
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/3/2016	CJR	
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/3/2016	CJR	
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/3/2016	CJR	
Chloromethane	10.8	ug/l	1.9	6	1	8260B		5/3/2016	CJR	
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/3/2016	CJR	
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/3/2016	CJR	
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/3/2016	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/3/2016	CJR	
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/3/2016	CJR	
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/3/2016	CJR	
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/3/2016	CJR	
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/3/2016	CJR	
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/3/2016	CJR	
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/3/2016	CJR	
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/3/2016	CJR	
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/3/2016	CJR	
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/3/2016	CJR	
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/3/2016	CJR	
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/3/2016	CJR	
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/3/2016	CJR	
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/3/2016	CJR	
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/3/2016	CJR	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/3/2016	CJR	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/3/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/3/2016	CJR	
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/3/2016	CJR	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/3/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/3/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
Tetrachloroethene	15.3	ug/l	0.49	1.5	1	8260B		5/3/2016	CJR	
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/3/2016	CJR	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/3/2016	CJR	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/3/2016	CJR	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/3/2016	CJR	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/3/2016	CJR	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/3/2016	CJR	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/3/2016	CJR	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/3/2016	CJR	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/3/2016	CJR	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/3/2016	CJR	
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/3/2016	CJR	
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		5/3/2016	CJR	
SUR - Toluene-d8	90	REC %			1	8260B		5/3/2016	CJR	
SUR - Dibromofluoromethane	107	REC %			1	8260B		5/3/2016	CJR	
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		5/3/2016	CJR	

Project Name FMR QUALITY CLEANERS **Invoice #** E30941
Project # 5630-001

Lab Code 5030941K
Sample ID MW-2
Sample Matrix Water
Sample Date 4/26/2016

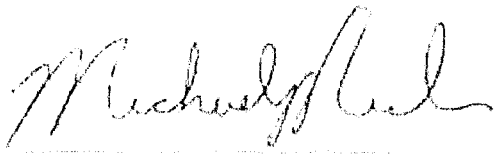
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/3/2016	CJR	
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/3/2016	CJR	
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/3/2016	CJR	
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		5/3/2016	CJR	
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/3/2016	CJR	
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/3/2016	CJR	
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/3/2016	CJR	
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/3/2016	CJR	
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/3/2016	CJR	
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/3/2016	CJR	
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/3/2016	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/3/2016	CJR	
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/3/2016	CJR	
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/3/2016	CJR	
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/3/2016	CJR	
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/3/2016	CJR	
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/3/2016	CJR	
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/3/2016	CJR	
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/3/2016	CJR	
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/3/2016	CJR	
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/3/2016	CJR	
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/3/2016	CJR	
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/3/2016	CJR	
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/3/2016	CJR	
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/3/2016	CJR	
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/3/2016	CJR	
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/3/2016	CJR	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/3/2016	CJR	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/3/2016	CJR	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/3/2016	CJR	
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/3/2016	CJR	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/3/2016	CJR	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/3/2016	CJR	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/3/2016	CJR	
Tetrachloroethene	85	ug/l	0.49	1.5	1	8260B		5/3/2016	CJR	
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/3/2016	CJR	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/3/2016	CJR	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/3/2016	CJR	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/3/2016	CJR	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/3/2016	CJR	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/3/2016	CJR	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/3/2016	CJR	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/3/2016	CJR	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/3/2016	CJR	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/3/2016	CJR	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/3/2016	CJR	
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/3/2016	CJR	
SUR - Toluene-d8	89	REC %			1	8260B		5/3/2016	CJR	
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		5/3/2016	CJR	
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		5/3/2016	CJR	
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/3/2016	CJR	

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
7	The LCS not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



[illegible]bert E. Lee & Associates, Inc.
[illegible]neering, Surveying, Environmental Services
1250 Centennial Centre Blvd
Hobart, WI 54155
920 662 9641 FAX 920 662 9141

To ensure th[illegible] proper handling of samples, please see the back for instructions.

CHAIN OF CUSTODY [illegible]ORD

COC # 201909

Client: [illegible]

Project Name: Former Quality Cleaners

Project Number: 5630-001 BID #:

Environmental Program: ☐ LUST ☐ SDWA ☐ WPDES ☐ RCRA ☐ OTHER ____

Requested Turnaround Time: ☒ Normal (10-15 DAYS) ☐ Rush

Date Needed: ____ Rushes accepted only w/prior notification

*Preservation Code: N = Nitric Acid (red); H = Hydrochloric Acid; M = Methanol; O = Sodium Hydroxide; U = Unpreserved (white); S = Sulfuric Acid (green)

Sampler: Ben Bellile

Sample Type (Matrix): DW = Drinking Water; GW = Groundwater; WW = Wastewater; Soil, Oil, Sludge, Air, Other

Analyses Required: (Note special detection limits or methods)

	Analysis 1	Analysis 2
Filtered? (Y/N)	N	N
Preservation *(Code)	M	H
Analysis	VOCs	VOCs

Report to: Nicole LaPlant
Company: Robert E. Lee & Associates
Address: 1250 Centennial Centre Blvd.
Hobart, WI 54155
Telephone: 920-662-9641

Invoice to: SAME
Company: Robert E. Lee & Associates
Address: 1250 Centennial Centre Blvd.
Hobart, WI 54155
Telephone: 920-662-9641

Sample Name	Date	Time	A/P	Grab	Comp	Sample Type	No. Of Containers	VOCs (M)	VOCs (H)	Laboratory Sample I.D.	Remarks
[illegible]	4-26-16	[illegible]	A	X		Soil	2	X		5030941A	
[illegible]		945								B	
[illegible]		[illegible]								C	
[illegible]		[illegible]								D	
[illegible]		[illegible]								E	
[illegible]		1140								F	
[illegible]		1235								G	
[illegible]		1300								H	
[illegible]	↓	1335		↓		↓		↓		I	
MW-1	4-26-16	1423			X	GW	3		X	J	
MW-2	↓	1535			X	↓	3		X	K	

Relinquished By	Date	Time	Received By	Date	Time
1)		A/P			A/P
2)		A/P			A/P
3)		A/P			A/P

Received by Lab [illegible] 4-28-16

A = AM P = PM

Laboratory Receiving Notes
Temperature of Contents ICE °C
Custody Seal Intact ✓
Sample Condition Good
Sample pH ____