Robert E. Lee & Associates, Inc.

Engineering, Surveying, Environmental Services

Green Bay Office 1250 Centennial Centre Boulevard Hobart, WI 54155-8995 920-662-9641 FAX 920-662-9141

February 14, 2014

Ms. Danielle Helm 1226A 11th Avenue Grafton, WI 53024

RE: Indoor Air and Vapor Sampling Results 1228 11th Avenue, Grafton, Wisconsin WDNR BRRTS #02-46-560212

Dear Ms. Helm:

FID+246166470

This correspondence is to provide you with the results of the indoor air and sub-slab vapor sampling conducted on January 16, 2014 within the building you occupy located at 1228 11th Avenue, Grafton, Wisconsin. The sampling was conducted by Robert E. Lee & Associates, Inc., (REL) as required by the Wisconsin Department of Natural Resources (WDNR) for the on-going environmental investigation of a historic dry cleaning solvent release identified at former Quality Cleaners (the Site). Initial investigation results indicate that soil and groundwater at the Site are contaminated with dry cleaning solvents. Based on these findings, the responsible party will be taking actions to protect current and future occupants of the building from potentially unhealthy exposures to these contaminants.

The purpose of the sampling was to determine whether dry cleaning related compound vapors from the subsurface contamination are migrating through soil and into the air (atmosphere) in the building. Two 8-hour indoor air samples (IA-1 and IA-2) were collected from within the Site building and two sub-slab vapor samples (SSV-1 and SSV-2) were collected from beneath the building floor via sampling devices installed in the floor. The samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota for analysis of the following dry cleaning related compounds: cis-1,2-dichloroethlene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A copy of the laboratory report is attached, and the results are summarized in Table 1.

Sub-Slab Vapor Results

Concentrations of dry cleaning related compounds were detected in each of the sub-slab vapor samples collected from beneath the building's floor. Most notably, PCE concentrations are above the Vapor Risk Screening Level established by the WDNR. The WDNR sub-slab Vapor Risk Screening Level for PCE is a health-based risk standard for long-term exposure and is a protective value that serves as a threshold of when sub-slab soil vapor concentrations may start to pose a risk for reaching and affecting indoor air quality.

Indoor Air Results

Concentrations of dry cleaning related compounds were also detected in the indoor air of the building. Most notably, PCE concentrations are above the Vapor Action Level established by the WDNR. The WDNR Vapor Action Level for PCE is a health-based risk standard for long-term exposure and is set at a concentration that is protective of human health and serves as a threshold above which exposure needs to be halted.

February 14, 2014 Ms. Danielle Helm Page 2

Conclusions

Based on the levels of PCE detected in the sub-slab vapor and indoor air samples, the WDNR, Wisconsin Department of Health Services (WDHS), and the Ozaukee County Health Department are working together with the responsible party to protect the building occupants and public from exposures to the dry cleaning related contamination at the Site.

At this time, the WDNR is requiring a vapor mitigation system be installed within the building followed by post-installation sampling to confirm that the system is effective and concentrations of PCE have been reduced to acceptable levels. A vapor mitigation system is a sub-slab depressurization system (similar to a radon mitigation system), which prevents vapor from entering the building from below, thereby reducing contaminant migration into indoor air. The WDNR has communicated this to the responsible party via letter, and you will be contacted in the future with further information regarding the actions relating to the building.

In addition, the WDNR is also requiring testing in other buildings near the Site to determine if there are impacts to off-site properties as well. Once the site investigation activities are complete, the WDNR will require remediation of the contaminated soil and groundwater at the Site to reduce the potential for PCE vapors in the future.

Enclosed are publications provided by the WDNR and WDHS that provide further information on vapor intrusion at properties.

Please feel free to contact Mr. John Feeney of the WDNR (920-893-8523) with any questions or concerns regarding the sampling results or required future actions for the Site. You may also contact Nicole LaPlant of Robert E. Lee & Associates, Inc., (920-662-9641) regarding results of the sampling.

Please contact Ms. Liz Evans of the Wisconsin Department of Health Services at 608-266-3393 or Mr. Dan Ziegler of the Ozaukee County Public Health Department at 262-284-8170 with any questions regarding any health questions related to the PCE concentrations detected in the building.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

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Nicole L. LaPlant Senior Project Geologist

NLL/BDM/NJM

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Bruce D. Meissner, PG Environmental Services Manager

CC/ENC: Mr. Gerald Kuehl Mr. John Feeney, WDNR Ms. Liz Evans, WDHS Mr. Dan Ziegler, Ozaukee County Health Department

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

						Relevant VOCs	(µg/m³)	
Sample ID	Sample Location	Sample Type	Date Collected	PCE	TCE	Cis-1,2 DCE	Trans-1,2 DCE	Vinyl Chloride
Non-Residentia	Sub-Slab Vapor Risk Screening Level (VRSL) µg/m³		18,000	880		26,000	2,800
Non-Residenital	Indoor Air Vapor Action Level (VAL)	Jg/m ³		180	8.8		260	28
SSV-1	Hallway entrance to two tenant spaces,	Sub-slab	1/16/2014	246,000	3.3	ND	ND	ND
IA-1	stylist.	Indoor air	1/16/2014	882	ND	ND	ND	ND
SSV-2	Near the location of the former dry	Sub-slab	1/16/2014	7,000,000	ND	ND	ND	ND
IA-2	cleaning machine (vicinity of Boring B1)	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

<u>Kev:</u>

--- = No screening level established ND = Not detected above laboratory detection limits

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

<u>Notes:</u> 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.



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VAPOR INTRUSION

What is vapor intrusion?

Vapor intrusion is a way that chemicals in soil or groundwater can get into indoor air. (see figure at right) Sometimes, chemicals are spilled on the ground at a factory or

leak from an underground storage tank. These chemicals can seep down into the soil and

groundwater. Some chemicals can also travel through soil as vapors. These vapors may then move up through the soil and into nearby buildings, contaminating indoor air. Homes in the same neighborhood and right next to each other can be affected differently by vapor intrusion. Vapor intrusion is similar to how radon, a naturally occurring radioactive gas, can enter a home through cracks in the foundation. Vapor intrusion is uncommon, but should be considered whenever there is a known source of soil or groundwater contamination nearby.

What chemicals might be entering my home, and where would they come from?

VOCs (volatile organic compounds) are one group of chemicals that easily become gases which can migrate through the soil and enter buildings. Some examples of VOCs are petroleum products such as gasoline or diesel fuel, and solvents for dry cleaning and industrial uses.

The most common vapor intrusion cases involve petroleum spilled or leaked from underground storage tanks at gas stations. These cases are usually accompanied by a petroleum odor. Solvents from other commercial sites and industrial sites are usually not accompanied by an odor. In many cases, chemical and petroleum releases are not immediately discovered. By the time they are discovered, the contamination has had time to migrate through the soil.

Some of these same solvents are also found in household products which may be stored in your home. Paints, paint strippers and thinners, cigarette smoke, aerosol sprays, moth balls, air fresheners, new carpeting or furniture, hobby supplies (glues and solvents), stored fuels, and dry-cleaned clothing all contain VOCs. For this reason, household products are more likely to be a source of indoor air quality problems at your home than vapor intrusion from a contamination site. In some extreme cases, health symptoms can be experienced as a result of exposure to chemicals stored in the home.

What are the health concerns with vapor intrusion?

The health effects from chemical exposures vary based on the individual exposed and the chemical involved. When chemicals build up in indoor air (at levels high enough to cause a strong petroleum odor, for example), some people will experience eye and respiratory irritation, headache, and/or nausea. These symptoms are temporary and should go away when the person is moved to fresh air. Usually, health officials are most concerned about low level chemical exposures over many years, as this may raise a person's lifetime risk for developing cancer.

The likelihood of indoor air contamination by vapor intrusion is low at most cleanup sites. When vapor intrusion does occur, the health risk will often be lower than that posed by radon or by chemicals owned and used by the resident. Even though the risk is quite low, the Wisconsin Department of Health Services (DHS) considers these risks to be unnecessary and avoidable.

What should I expect if vapor intrusion is a concern near my home?

If you live near a site with VOC contamination, such as a gas station or dry cleaner where petroleum or chemicals have contaminated soil or groundwater, you should expect that the potential for vapor intrusion is also being investigated. You may be contacted by the cleanup site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being

done, or you can contact the DNR cleanup project manager, or a DHS employee. Telephone numbers and internet addresses for DHS and DNR are provided below.

How is vapor intrusion investigated?

In most cases, the potential for vapor intrusion can be ruled out by collecting soil gas or groundwater samples near the contamination site. In some cases, sampling closer to your property and/or home may be necessary. DHS and DNR do not usually recommend indoor air sampling for vapor intrusion. Indoor air quality changes a lot from day to day. Therefore, sampling one day may not show a problem even though sampling a day later might show contamination. Since a variety of VOC sources are present in most homes, testing will not necessarily confirm that VOCs in the indoor air are from VOC contamination in soils nearby. Instead, soil vapor samples are taken from areas outside of the home to see if vapors are near the home. Samples may also be taken from beneath the home's foundation (called sub-slab samples), to see if vapors have reached the home. Sub-slab samples are more reliable than indoor air samples and are not as affected by other indoor chemical sources. If no odors are present at a petroleum cleanup site, additional testing may not be necessary as long as the site is being cleaned up effectively.

What happens if a problem is found?

If vapor intrusion is having an effect on the air in your home, the most common solution is to install a *radon mitigation system*. This prevents gases in the soil from entering the home. A low amount of suction is applied below the foundation and the vapors are vented to the outside. The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also prevents radon from entering the home, an added health benefit. Usually, the party responsible for cleaning up the contamination is also responsible for paying for the installation of this system. Once the contamination is cleaned up, the system should no longer be needed. In homes with radon problems, DHS suggests that these systems remain in place permanently.

What else can I do to improve my air quality?

There are other sources of indoor air problems. Consider these tips to improve air quality:

- Do not buy more chemicals than you need at a time. Be aware of what products contain VOCs.
- Store unused chemicals in appropriate containers in a well-ventilated location.
- If you smell a chemical odor that does not seem to be from an indoor source, contact your local health department. For very strong odors, your local fire department can determine if there is a fire hazard.
- Don't make your home too air tight. Fresh air will help prevent both buildup of chemicals in the air and mold growth.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure all major appliances and fireplaces are in good condition. Have them checked annually by a professional.
- TEST YOUR HOME FOR RADON! (www.lowradon.org)

For more information

For health related questions, contact your local health department or DHS at (608) 266-1120. More information on this and related topics is available on the DHS website: www.dhs.wi.gov/eh/air. For an on-line DNR database of sites with environmental contamination, follow the "BRRTS on the Web" button from the Remediation and Redevelopment page: dnr.wi.gov/topic/brownfields/botw.html.

Who Should I Contact About Vapor Intrusion Investigations?

RR-934

April 2013

The Department of Natural Resources (DNR) Remediation and Redevelopment (RR) program oversees the investigation and cleanup for all environmental contaminant pathways, including vapor intrusion. Both DNR and the Wisconsin Department of Health Services/Division of Public Health (DHS/DPH) and local health departments have the responsibility for ensuring that human health is protected at contaminated sites for both residential and non-residential properties. To avoid duplication of effort and to be effective and efficient in assessing risk to human health at contaminated sites with vapor intrusion issues, we recommend that the following criteria be used for determining when to involve DHS/ DPH in vapor intrusion cases:

DNR Responsibility

- Provide answers to questions relating to site investigation, mitigation, remediation, follow-up monitoring, closure decisions, etc. Examples include:
 - collecting sub-slab, soil vapor or indoor air samples;
 - vapor intrusion sampling techniques;
 - sampling & analysis methodology and frequency;
 - developing a conceptual site model;
 - where to collect samples;
 - post-mitigation monitoring for sub-slab & indoor air; and
 - assessing & interpreting soil, sub-slab and indoor air vapor results.
- Work with DHS/DPH staff in all situations where people may be exposed to contaminants of concern.

Health Agency Responsibility

- Provide support when indoor air concentrations exceed Action Level(s) of contaminants. An Action Level is equal either of the following: a hazard index (HI) of 1.0 or a 1-in-100,000 excess lifetime cancer risk. DHS/DPH should be consulted to ensure that the indoor air risk is mitigated and building occupants are protected.
- Provide support to interpret and communicate indoor air results.
- When needed, help with gaining access to homes or businesses to collect sub-slab or indoor air samples to:
 - communicate risk from chemical exposures,
 - explain why samples need to be collected, and
 - address health concerns or questions.

There are overlapping responsibilities between DHS/DPH and DNR regarding indoor air risks at vapor intrusion sites. The goal is to involve DHS/DPH and local helath departments in site investigation decisions when a risk to human health may exist. This allows DHS/DPH more time for collaboration with city and county health departments, which are the lead public health authorities throughout Wisconsin.

Questions? Contact Terry Evanson at DNR: 608-266-0941, Theresa.Evanson@wisconsin.gov or Liz Evans at DHS/ DPH: 608-266-3393, Elizabeth.Evans@dhs.wisconsin.gov

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240.

This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



Wisconsin Department of Natural Resources P.O. Box 7921, Madison, WI 53707 dnr.wi.gov, search "brownfield"





Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 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 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 That

Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures





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



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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project:5446-001 Former Quality CleanePace 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



Project:

5446-001 Former Quality Cleane

ANALYTICAL RESULTS

Pace Project No.: 10255522 Collected: 01/16/14 16:04 Received: 01/21/14 13:10 Sample: SSV-1 Lab ID: 10255522001 Matrix: Air DF CAS No. Parameters Results Units Report Limit Prepared Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 ND ug/m3 02/01/14 05:10 156-59-2 cis-1,2-Dichloroethene 1.2 1.44 ND ug/m3 02/01/14 05:10 156-60-5 trans-1,2-Dichloroethene 1.2 1.44 246000 ug/m3 Tetrachloroethene 1270 1843.2 02/01/14 18:34 127-18-4 A3 3.3 ug/m3 02/01/14 05:10 79-01-6 0.79 Trichloroethene 1.44 ND ug/m3 02/01/14 05:10 75-01-4 Vinyl chloride 0.37 1.44 Lab ID: 10255522002 Collected: 01/16/14 16:22 Received: 01/21/14 13:10 Sample: SSV-2 Matrix: Air CAS No. Qual Results Units Report Limit DF Prepared Analyzed Parameters TO15 MSV AIR Analytical Method: TO-15 ND ug/m3 6180 7628.8 02/01/14 13:11 156-59-2 cis-1,2-Dichloroethene ND ug/m3 trans-1,2-Dichloroethene 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 Е Trichloroethene ND ug/m3 4200 7628.8 02/01/14 13:11 79-01-6 ND ug/m3 1980 7628.8 02/01/14 13:11 75-01-4 Vinyl chloride



QUALITY CONTROL DATA

Project:	5446-001	Former	Quality	Cleane
	3440-001	ronnei	Quality	Cicane

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 Sam	ples: 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

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	



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.



10255522001

10255522002

SSV-1

SSV-2

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

 Batch

AIR/19326

AIR/19326

TO-15

TO-15

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SAMPLER NAME AND SIGNATURE

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F	ace Analytical *		Docume	nt No.:		Issuing Authorit	γ: ty Office
Air Sample Condition	Client Name: Robert C.L		P-10110-A-10	Project #	*: [W0#	102555	22
Courier: Tracking Number: 3	Fed Ex UPS Commercial Pace 753 4197 513	USPS		ient	9 102555	22 22	
Custody Seal on Cooler	Box Present? Ves	(INO	Seals In	tact? [Types Mo	Optional: Proj. Due Date:	Proj. Name:
Packing Material:	ubble Wrap Bubble B	ags	n 🗌 No	ne []Other:	Ten	np Blank rec: Yes No
Temp. (TO17 and TO13 san	nples only) (°C):	Corrected Tem	p (°C):		Thermom. Used:	B88A912167504	72387080
Temp should be above free	ezing to 6°C Correction Fact	or:			Date & Initials of	B88A9132521491 Person Examining Contents:	CH 130512447
Type of ice Received	Blue 🗌 Wet 🗍 None					-	l
						Comments:	·
Chain of Custody Presen	t?	⊘ Ŷes	No	□n/a	1.		:
Chain of Custody Filled (Dut?	Yes	No	□n/a	2.		
Chain of Custody Reling	uished?	<u>∕</u> Yes	No	□n/a	3.		
Sampler Name and/or S	gnature on COC?	Yes	No	□n/a	4.	• •	
Samples Arrived within I	Hold Time?	P Yes	<u>No</u>	□n/a	5.		
Short Hold Time Analysi	is (<72 hr)?	Yes	No		6.	· · · · · · · · · · · · · · · · · · ·	
Rush Turn Around Time	Requested?	Yes	ZNo		7.	· · · · · · · · · · · · · · · · · · ·	
Sufficient Volume?		/Yes	No		8.		¥ .
Correct Containers Used	?	Z Yes	□No	□n/a	9.		
-Pace Containers Used	<u>}?</u>	Yes	No		· · · · · · · · · · · · · · · · · · ·		
Containers Intact?		V Yes	No	L]N/A	10.		
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		Yes			12.	······································	······
Samples Received:	2 An Ca	r					
Car	nisters		Flow	Controllers		Stand	d Alone G
Sample Number	Can ID	Sample N	lumber		Can ID	Sample Number	Can ID
SSV-1	0562	099	<u>8</u>				
554-2	0023	09.55	-				
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CLIENT NOTIFICATION/R Person Cont Comments/Resol	ESOLUTION acted:			[Date/Time:	Field Data Required	? []Yes []No
		······					
						;	
Project Manager Review:	(* This				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)



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 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 That

Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures





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



SAMPLE SUMMARY

Project:5446-001 Former Quailty CleanePace 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



SAMPLE ANALYTE COUNT

Project:5446-001 Former Quailty CleanePace 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



ANALYTICAL RESULTS

Pace Project No.: 10255520									
Sample: IA-1	Lab ID: 102	55520001	Collected: 01	/16/	14 15:12	Received: 01	1/21/14 13:10	Matrix: Air	
Parameters	Results	Units	Report Lin	nit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15							
cis-1,2-Dichloroethene	ND ug	ı/m3		1.3	1.61		01/31/14 00:20	156-59-2	
trans-1,2-Dichloroethene	ND ug	ı/m3		1.3	1.61		01/31/14 00:20	156-60-5	
Tetrachloroethene	882 ug	/m3	2	2.2	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: 102	55520002	Collected: 01/	16/1	14 15:15	Received: 01	/21/14 13:10	Matrix: Air	
Parameters	Results	Units	Report Lin	nit -	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Meth	nod: TO-15							
cis-1,2-Dichloroethene	ND ug	/m3	25	5.1	- 31		02/01/14 03:38	156-59-2	
trans-1,2-Dichloroethene	ND ug	/m3	25	5.1	31		02/01/14 03:38	156-60-5	
Tetrachloroethene	865 ug	/m3	2'	1.4	31		02/01/14 03:38	127-18-4	
Trichloroethene	ND ug	/m3	- 17	7.0	31		02/01/14 03:38	79-01-6	
Vinyl chloride	ND ug	/m3	٤	3.1	31		02/01/14 03:38	75-01-4	
Sample: OA-1	Lab ID: 1028	55520003	Collected: 01/	16/1	4 15:18	Received: 01	/21/14 13:10 N	latrix: Air	
Parameters	Results	Units	Report Lim	it _	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Meth	od: 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	0.4	40	1.55		01/30/14 23:18	75-01-4	

Project: 5446-001 Former Quailty Cleane



QUALITY CONTROL DATA

Project: Pace Project No.:	5446-001 Form 10255520	er Quailty Cleane								
QC Batch:	AIR/19314		Analysis M	ethod:	TC	TO-15				
QC Batch Method:	TO-15		Analysis D	escription:	TC	D15 MSV AIF	R Low Level			
Associated Lab San	nples: 10255	520001, 10255520003								
METHOD BLANK:	1617456		Matri	k: Air						
Associated Lab San	nples: 102555	520001, 10255520003								
			Blank	Reportin	g					
Paran	neter	Units	Result	Limit		Analyze	d Qual	lifiers		
cis-1,2-Dichloroethe	ne	ug/m3	NE) (0.81	01/30/14 1	2:33			
Tetrachloroethene		ug/m3	NE) (0.69	01/30/14 1	2:33			
trans-1,2-Dichloroet	hene	ug/m3	NE) (0.81	01/30/14 1	2:33			
Trichloroethene		ug/m3	NE) (0.55	01/30/14 1	2:33			
Vinyl chloride		ug/m3	NE) (0.26	01/30/14 1	2:33			
LABORATORY CON	ITROL SAMPLE	: 1617457		<u> </u>						<u> </u>
			Spike	LCS		LCS	% Rec			
Param	neter	Units	Conc.	Result	9	% Rec	Limits	Qua	lifiers	
cis-1,2-Dichloroethe	ne	ug/m3	40.3	39.0		97	71-135			
Tetrachloroethene		ug/m3	69	80.0		116	69-136			
trans-1,2-Dichloroet	hene	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 DUPLICAT	E: 1617845			<u> </u>			<u> </u>			
-		11.21.	10255499001	Dup			Max		Over life on	
Param	ieter	Units	Kesult	Result		KPD	— кро		Qualifiers	
	ne	ug/m3	ND	I	ND			25		
cis-1,2-Dichloroethe		ualm?	ND		ND			25		
cis-1,2-Dichloroethe Tetrachloroethene		ugmis								
cis-1,2-Dichloroethe Tetrachloroethene trans-1,2-Dichloroeth	nene	ug/m3	ND	I	ND			25		
cis-1,2-Dichloroethen Tetrachloroethene trans-1,2-Dichloroeth Trichloroethene	nene	ug/m3 ug/m3 ug/m3	ND 30.0		ND 30.0		.2	25 25		



QUALITY CONTROL DATA

Project:	5446-001 Forme	r Quailty Cleane					
Pace Project No.:	10255520						
QC Batch:	AIR/19326		Analysis Met	hod: T	O-15		
QC Batch Method:	TO-15		Analysis Des	cription: T	O15 MSV AIR Low	Level	
Associated Lab Sam	ples: 1025552	0002					
METHOD BLANK:	1618172		Matrix:	Air			
Associated Lab Sam	ples: 1025552	0002					
			Blank	Reporting			
Param	leter	Units	Result	Limit	Analyzed	Qualifiers	
cis-1,2-Dichloroethe	ne	ug/m3	ND	0.81	01/31/14 16:03		
Tetrachloroethene		ug/m3	ND	0.69	01/31/14 16:03		
trans-1,2-Dichloroeth	nene	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

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	



QUALIFIERS

Project:5446-001 Former Quailty CleanePace 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.



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		

Pace Analytical*

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:	Section B Required Project Infor	nation:	a Alter		Section	n C nformation:	ې د کې د بې د کې کې	n Br	م و منظور و ب	 []		ine Stantin	۰ داريې	. •. • • •	14)		n in Dirit	an a Rite	18	33	76	Pa	ige: / c	of /
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Hobert, WI 54155	Durahara Ordan Nati	·· ·· ·			Address	1250 G	ntaa	a/C	more	Bl	vd_					l r va	luntar	y Clea	n Up '	Τ́Þ	ry Clear		RCRA	Other 🔆
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Section D Provined Client Information	Valid Media Codes	<u>46 - 0</u>	$\frac{\infty}{s}$		<u> </u>	EOTED		1 _	1	1						Repo	rt Lev	el II. 77		m 777	IV		.her	NG SCH X COMMAND SCH
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direction.

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

Page 10 of 11

ja se	ace Analytical	Air San	nple Conditi	on Upon R	eceipt	Page 1 of 1	
		L <u></u>	F-MN-A-10)6-rev.09		Pace Minnesota Quality	Office
Air Sample Condition. (Upon Receipt	Client Name: Robert E	Lee		Project i	*: 04	:102555	20
Courier:	Fed Ex UPS Commercial Pace 753 41977	USPS		ient	102555		
Cuctody Sool on Coolor				•n-+2 [Optional: Proj. Due Date:	Proj. Name:
Packing Material:				uacui [Tem	
Temp (T017 and T012 cam			n (°C):		Thermom Used:	B88A912167504	
Temp should be above from	viges to 6°C Correction Eac	tor:	" h(c)· _		Date & Initials of	B88A9132521491	80512447
Type of ice Received	Alue (Wet (None				Date & Initials of	reison examining contents.	Cap Ider
						Comments:	
Chain of Custody Present	t?	Yes			1.		
Chain of Custody Filled C		Yes			2.		
Chain of Custody Relingu	lisned?	- Yes			3.		
Sampler Name and/or Si	gnature on COC?	Yes			4.		
Samples Arrived within H	Iold Time?	Yes	No		5.		
Short Hold Time Analysis	s (<72 hr)?	Yes	No	N/A	6.	· · · · · · · · · · · · · · · · · · ·	
Rush Turn Around Time	Requested?	Yes	No	N/A	7.		
Sufficient Volume?		Yes	No	<u>N/A</u>	8.	1	
Correct Containers Used	?	Yes	[]No	□n/a	9.		
-Pace Containers Used	1?	Yes	[]No	<u> </u> N/A			
Containers Intact?	· · · · · · · · · · · · · · · · · · ·	Yes	No	□n/a	10.		
Media: AW		· · · · · · · · · · · · · · · · · · ·			<u>11.</u>		
Sample Labels Match COO	C?		No	□n/a	12.		
Samples Received:	SAW Can	3 Plan	Ac	llere	· · ·		·····
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CLIENT NOTIFICATION/RE	SOLUTION					Field Data Required?	Yes No
Person Conta	cted:			E	Date/Time:		<u> </u>
Comments/Resolu	ution:					······································	
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'roject Manager Review:	A A		samples a	conv of th	Date:	to the North Carolina DELINE	Contification Office (it

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).

Robert E. Lee & Associates, Inc.

Engineering, Surveying, Environmental Services

Green Bay Office 1250 Centennial Centre Boulevard Hobart, WI 54155-8995 920-662-9641 FAX 920-662-9141

February 14, 2014

Ms. Bonnie Barkley HAIR VISION 1226B 11th Avenue Grafton, WI 53024

RE: Indoor Air and Vapor Sampling Results for 1228 11th Avenue, Grafton, Wisconsin; WDNR BRRTS #02-46-560212

Dear Ms. Barkley: FID# 246166470

This correspondence is to provide you with the results of the indoor air and sub-slab vapor sampling conducted on January 16, 2014 within the building you occupy located at 1228 11th Avenue, Grafton, Wisconsin. The sampling was conducted by Robert E. Lee & Associates, Inc., (REL) as required by the Wisconsin Department of Natural Resources (WDNR) for the on-going environmental investigation of a historic dry cleaning solvent release identified at former Quality Cleaners (the Site). Initial investigation results indicate that soil and groundwater at the Site are contaminated with dry cleaning solvents. Based on these findings, the responsible party will be taking actions to protect current and future occupants of the building from potentially unhealthy exposures to these contaminants.

The purpose of the sampling was to determine whether dry cleaning related compound vapors from the subsurface contamination are migrating through soil and into the air (atmosphere) in the building. Two 8-hour indoor air samples (IA-1 and IA-2) were collected from within the Site building and two sub-slab vapor samples (SSV-1 and SSV-2) were collected from beneath the building floor via sampling devices installed in the floor. The samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota for analysis of the following dry cleaning related compounds: cis-1,2-dichloroethlene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A copy of the laboratory report is attached, and the results are summarized in Table 1.

Sub-Slab Vapor Results

Concentrations of dry cleaning related compounds were detected in each of the sub-slab vapor samples collected from beneath the building's floor. Most notably, PCE concentrations are above the Vapor Risk Screening Level established by the WDNR. The WDNR sub-slab Vapor Risk Screening Level for PCE is a health-based risk standard for long-term exposure and is a protective value that serves as a threshold of when sub-slab soil vapor concentrations may start to pose a risk for reaching and affecting indoor air quality.

<u>Indoor Air Results</u>

Concentrations of dry cleaning related compounds were also detected in the indoor air of the building. Most notably, PCE concentrations are above the Vapor Action Level established by the WDNR. The WDNR Vapor Action Level for PCE is a health-based risk standard for long-term exposure and is set at a concentration that is protective of human health and serves as a threshold above which exposure needs to be halted.

February 14, 2014 Ms. Bonnie Barkley HAIR VISION Page 2

Conclusions

Based on the levels of PCE detected in the sub-slab vapor and indoor air samples, the WDNR, Wisconsin Department of Health Services (WDHS), and the Ozaukee County Health Department are working together with the responsible party to protect the building occupants and public from exposures to the dry cleaning related contamination at the Site.

At this time, the WDNR is requiring a vapor mitigation system be installed within the building followed by post-installation sampling to confirm that the system is effective and concentrations of PCE have been reduced to acceptable levels. A vapor mitigation system is a sub-slab depressurization system (similar to a radon mitigation system), which prevents vapor from entering the building from below, thereby reducing contaminant migration into indoor air. The WDNR has communicated this to the responsible party via letter, and you will be contacted in the future with further information regarding the actions relating to the building.

In addition, the WDNR is also requiring testing in other buildings near the Site to determine if there are impacts to off-site properties as well. Once the site investigation activities are complete, the WDNR will require remediation of the contaminated soil and groundwater at the Site to reduce the potential for PCE vapors in the future.

Enclosed are publications provided by the WDNR and WDHS that provide further information on vapor intrusion at properties.

Please feel free to contact Mr. John Feeney of the WDNR (920-893-8523) with any questions or concerns regarding the sampling results or required future actions for the Site. You may also contact Nicole LaPlant of Robert E. Lee & Associates, Inc., (920-662-9641) regarding results of the sampling.

Please contact Ms. Liz Evans of the Wisconsin Department of Health Services at 608-266-3393 or Mr. Dan Ziegler of the Ozaukee County Public Health Department at 262-284-8170 with any questions regarding any health questions related to the PCE concentrations detected in the building.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

1 icole 1. Lallant

Nicole L. LaPlant Senior Project Geologist

NLL/BDM/NJM

ENC.

Brong

Bruce D. Meissner, PG Environmental Services Manager

CC/ENC: Mr. Gerald Kuehl Mr. John Feeney, WDNR Ms. Liz Evans, WDHS Mr. Dan Ziegler, Ozaukee County Health Department



Z

VAPOR INTRUSION

What is vapor intrusion?

Vapor intrusion is a way that chemicals in soil or groundwater can get into indoor air. (see figure at right) Sometimes, chemicals are spilled on the ground at a factory or

leak from an underground storage tank. These chemicals can seep down into the soil and

groundwater. Some chemicals can also travel through soil as vapors. These vapors may then move up through the soil and into nearby buildings, contaminating indoor air. Homes in the same neighborhood and right next to each other can be affected differently by vapor intrusion. Vapor intrusion is similar to how radon, a naturally occurring radioactive gas, can enter a home through cracks in the foundation. Vapor intrusion is uncommon, but should be considered whenever there is a known source of soil or groundwater contamination nearby.

What chemicals might be entering my home, and where would they come from?

VOCs (volatile organic compounds) are one group of chemicals that easily become gases which can migrate through the soil and enter buildings. Some examples of VOCs are petroleum products such as gasoline or diesel fuel, and solvents for dry cleaning and industrial uses.

The most common vapor intrusion cases involve petroleum spilled or leaked from underground storage tanks at gas stations. These cases are usually accompanied by a petroleum odor. Solvents from other commercial sites and industrial sites are usually not accompanied by an odor. In many cases, chemical and petroleum releases are not immediately discovered. By the time they are discovered, the contamination has had time to migrate through the soil.

Some of these same solvents are also found in household products which may be stored in your home. Paints, paint strippers and thinners, cigarette smoke, aerosol sprays, moth balls, air fresheners, new carpeting or furniture, hobby supplies (glues and solvents), stored fuels, and dry-cleaned clothing all contain VOCs. For this reason, household products are more likely to be a source of indoor air quality problems at your home than vapor intrusion from a contamination site. In some extreme cases, health symptoms can be experienced as a result of exposure to chemicals stored in the home.

What are the health concerns with vapor intrusion?

The health effects from chemical exposures vary based on the individual exposed and the chemical involved. When chemicals build up in indoor air (at levels high enough to cause a strong petroleum odor, for example), some people will experience eye and respiratory irritation, headache, and/or nausea. These symptoms are temporary and should go away when the person is moved to fresh air. Usually, health officials are most concerned about low level chemical exposures over many years, as this may raise a person's lifetime risk for developing cancer.

The likelihood of indoor air contamination by vapor intrusion is low at most cleanup sites. When vapor intrusion does occur, the health risk will often be lower than that posed by radon or by chemicals owned and used by the resident. Even though the risk is quite low, the Wisconsin Department of Health Services (DHS) considers these risks to be unnecessary and avoidable.

What should I expect if vapor intrusion is a concern near my home?

If you live near a site with VOC contamination, such as a gas station or dry cleaner where petroleum or chemicals have contaminated soil or groundwater, you should expect that the potential for vapor intrusion is also being investigated. You may be contacted by the cleanup site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being

done, or you can contact the DNR cleanup project manager, or a DHS employee. Telephone numbers and internet addresses for DHS and DNR are provided below.

How is vapor intrusion investigated?

In most cases, the potential for vapor intrusion can be ruled out by collecting soil gas or groundwater samples near the contamination site. In some cases, sampling closer to your property and/or home may be necessary. DHS and DNR do not usually recommend indoor air sampling for vapor intrusion. Indoor air quality changes a lot from day to day. Therefore, sampling one day may not show a problem even though sampling a day later might show contamination. Since a variety of VOC sources are present in most homes, testing will not necessarily confirm that VOCs in the indoor air are from VOC contamination in soils nearby. Instead, soil vapor samples are taken from areas outside of the home to see if vapors are near the home. Samples may also be taken from beneath the home's foundation (called sub-slab samples), to see if vapors have reached the home. Sub-slab samples are more reliable than indoor air samples and are not as affected by other indoor chemical sources. If no odors are present at a petroleum cleanup site, additional testing may not be necessary as long as the site is being cleaned up effectively.

What happens if a problem is found?

If vapor intrusion is having an effect on the air in your home, the most common solution is to install a *radon mitigation system*. This prevents gases in the soil from entering the home. A low amount of suction is applied below the foundation and the vapors are vented to the outside. The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also prevents radon from entering the home, an added health benefit. Usually, the party responsible for cleaning up the contamination is also responsible for paying for the installation of this system. Once the contamination is cleaned up, the system should no longer be needed. In homes with radon problems, DHS suggests that these systems remain in place permanently.

What else can I do to improve my air quality?

There are other sources of indoor air problems. Consider these tips to improve air quality:

- Do not buy more chemicals than you need at a time. Be aware of what products contain VOCs.
- Store unused chemicals in appropriate containers in a well-ventilated location.
- If you smell a chemical odor that does not seem to be from an indoor source, contact your local health department. For very strong odors, your local fire department can determine if there is a fire hazard.
- Don't make your home too air tight. Fresh air will help prevent both buildup of chemicals in the air and mold growth.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure all major appliances and fireplaces are in good condition. Have them checked annually by a professional.
- TEST YOUR HOME FOR RADON! (www.lowradon.org)

For more information

For health related questions, contact your local health department or DHS at (608) 266-1120. More information on this and related topics is available on the DHS website: www.dhs.wi.gov/eh/air. For an on-line DNR database of sites with environmental contamination, follow the "BRRTS on the Web" button from the Remediation and Redevelopment page: dnr.wi.gov/topic/brownfields/botw.html.

Who Should I Contact About Vapor Intrusion Investigations?

RR-934

April 2013

The Department of Natural Resources (DNR) Remediation and Redevelopment (RR) program oversees the investigation and cleanup for all environmental contaminant pathways, including vapor intrusion. Both DNR and the Wisconsin Department of Health Services/Division of Public Health (DHS/DPH) and local health departments have the responsibility for ensuring that human health is protected at contaminated sites for both residential and non-residential properties. To avoid duplication of effort and to be effective and efficient in assessing risk to human health at contaminated sites with vapor intrusion issues, we recommend that the following criteria be used for determining when to involve DHS/ DPH in vapor intrusion cases:

DNR Responsibility

Provide answers to questions relating to site investigation, mitigation, remediation, follow-up monitoring, closure decisions, etc. Examples include:

- collecting sub-slab, soil vapor or indoor air samples;
- vapor intrusion sampling techniques;
- sampling & analysis methodology and frequency;
- developing a conceptual site model;
- where to collect samples;
- post-mitigation monitoring for sub-slab & indoor air; and
- assessing & interpreting soil, sub-slab and indoor air vapor results.
- Work with DHS/DPH staff in all situations where people may be exposed to contaminants of concern.

Health Agency Responsibility

- Provide support when indoor air concentrations exceed Action Level(s) of contaminants. An Action Level is equal either of the following: a hazard index (HI) of 1.0 or a 1-in-100,000 excess lifetime cancer risk. DHS/DPH should be consulted to ensure that the indoor air risk is mitigated and building occupants are protected.
- Provide support to interpret and communicate indoor air results.
- When needed, help with gaining access to homes or businesses to collect sub-slab or indoor air samples to:
 - communicate risk from chemical exposures,
 - explain why samples need to be collected, and
 - address health concerns or questions.

There are overlapping responsibilities between DHS/DPH and DNR regarding indoor air risks at vapor intrusion sites. The goal is to involve DHS/DPH and local helath departments in site investigation decisions when a risk to human health may exist. This allows DHS/DPH more time for collaboration with city and county health departments, which are the lead public health authorities throughout Wisconsin.

Questions? Contact Terry Evanson at DNR: 608-266-0941, Theresa.Evanson@wisconsin.gov or Liz Evans at DHS/ DPH: 608-266-3393, Elizabeth.Evans@dhs.wisconsin.gov

This publication is available in alternative format upon request. Please call 608-267-3543 for more information.





This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240.



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 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 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 That

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:5446-001 Former Quality CleanePace 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



SAMPLE SUMMARY

Project:5446-001 Former Quality CleanePace 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



SAMPLE ANALYTE COUNT

Project:5446-001 Former Quality CleanePace 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



5446-001 Former Quality Cleane

Project:

ANALYTICAL RESULTS

Pace Project No.: 10255522	-			
Sample: SSV-1	Lab ID: 1025552200	1 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-1	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	2 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-1	5		
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	700000 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



QUALITY CONTROL DATA

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

ce Project No.:	10255522
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OC Batch:	AIR/10326	Analysis Mathod:	TO 15	
	And 19520	Analysis Method.		
QC Batch Method:	TO-15	Analysis Description:	1015 MSV AIR Low Level	
Associated Lab Sam	ples: 10255522001, 10255522002			
	·	···		
METHOD BLANK:	1618172	Matrix: Air		
Associated Lab Sam	ples: 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

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	



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.



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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'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes <u>MEDIA</u> <u>CODE</u> Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Can 6LC Low Volume Puff HVP Other PM10	DIA CODE D Reading (Client only)	COMPOSITE STAF	COLLEC	COMP	osite -	anister Pressure nitiál Field - psig)	anister Pressure Final Fleid - psig)	Sur C Nun	nma an nber	Contr	Flow ol Nur	nber	Metho	3 10 Cas	Gut (nett, (%)	19 CB (1970)		Short List.			
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Page 9 of 10

ji ji	7	ں Air Sample	Condition Up	on Receipt	Page 1 of 1	
P	ace Analytical	F-1	Document No.:	<u>.</u>	Issuing Authority: Pace Minnesota Quality	Office
Ali Sample Condition (Upon Receipt	Client Name:		Proje		t:102555	22
Courier:	Fed Ex UPS Commercial Pace 753 4197	USPS	Client	- 102555	522	
Curtady Saal on Coaland		Tello s			Optional: Proj. Due Date:	Proj. Name:
Packing Material		Bags Froam			LTem	Blank rec: Ves I
Femp. (TO17 and TO13 sam Temp should be above free ype of ice Received	nples only) (°C): ezing to 6°C Correction Fac BlueWetNone	Corrected Temp (°	c):	Thermom. Used: Date & Initials of	B88A912167504 B88A9132521491 Person Examining Contents:	72387080 780512447 6-21-13
-			· .		Comments:	<u>.</u>
Chain of Custody Presen	t?	ZÝes [/A 1.		
Chain of Custody Filled C	Dut?	Yes [/A 2.		
Chain of Custody Relinqu	uished?	<u> </u>		/A 3.		
Sampler Name and/or Si	gnature on COC?	Yes [/A 4.		
Samples Arrived within H	Iold Time?	Yes [<u>/A 5.</u>		
Short Hold Time Analysi	s (<72 hr)?	Yes 🛛		/A 6.	•	
Rush Turn Around Time	Requested?	Yes [/A 7.	· · · · · · · · · · · · · · · · · · ·	· · ·
Sufficient Volume?	· · · · · · · · · · · · · · · · · · ·	Yes [/A 8.		÷ .
Correct Containers Used	?	[Yes []No []N	/A 9.		
-Pace Containers Used	1?	Yes [/A .		•
Containers Intact?		Yes [/A 10.		
Media: An C				11.		
Sample Labels Match CO	C?	Yes [/A 12.	· · · · · · · · · · · · · · · · · · ·	
Samples Received:	2 An Cm	·		•		
Can	isters		Flow Contro	llers	Stand	Alone G
Sample Number	Can ID	Sample Num	ber	Can ID	Sample Number	Can ID
SSV-1	0562	0948				
554-2	0022	6935		· · · · · · · · · · · · · · · · · · ·		
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LIENT NOTIFICATION/RI Person Conta Comments/Resol	ESOLUTION acted:			Date/Time:	Field Data Required?	Yes No
			··· · · · · ·			
	An.				1/22/11/	
Project Manager Review:	crepancy affecting North Car	olina compliance sar	nples, a copy	Date:	122/14	Certification Office (

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



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 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 That

Carolynne Trout carolynne.trout@pacelabs.com Project Manager

Enclosures





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



SAMPLE SUMMARY

Project:5446-001 Former Quality CleanePace 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



SAMPLE ANALYTE COUNT

Project:5446-001 Former Quailty CleanePace 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



5446-001 Former Quailty Cleane

Project:

ANALYTICAL RESULTS

Pace Project No.: 10255520									
Sample: IA-1	Lab ID: 10255	520001	Collected: 0)1/16/	14 15:12	Received: 0	1/21/14 13:10	Matrix: Air	
Parameters	Results	Units	Report L	.imit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Metho	d: TO-15							
cis-1,2-Dichloroethene	ND ug/m	13		1.3	1.61		01/31/14 00:20	0 156-59-2	
trans-1,2-Dichloroethene	ND ug/m	13		1.3	1.61		01/31/14 00:20	0 156-60-5	
Tetrachloroethene	882 ug/m	13		22.2	32.2		01/31/14 16:00	6 127-18-4	
Trichloroethene	ND ug/m	13		0.89	1.61		01/31/14 00:20) 79-01-6	
Vinyl chloride	ND ug/m	13		0.42	1.61		01/31/14 00:20) 75-01-4	
Sample: IA-2	Lab ID: 10255	520002	Collected: 0	1/16/	14 15:15	Received: 0	1/21/14 13:10	Matrix: Air	
Parameters	Results	Units	Report L	imit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method	d: TO-15							
cis-1,2-Dichloroethene	ND ug/m	3		25.1	31		02/01/14 03:38	3 156-59-2	
trans-1,2-Dichloroethene	ND ug/m	3		25.1	31		02/01/14 03:38	3 156-60-5	
Tetrachloroethene	865 ug/m	3		21.4	31		02/01/14 03:38	3 127-18-4	
Trichloroethene	ND ug/m	3		17.0	31		02/01/14 03:38	3 79-01-6	
Vinyl chloride	ND ug/m	3		8.1	31		02/01/14 03:38	3 75-01-4	
Sample: OA-1	Lab ID: 10255	520003	Collected: 0	1/16/1	14 15:18	Received: 0	1/21/14 13:10	Matrix: Air	
Parameters	Results	Units	Report Li	imit _	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method	1: TO-15						_	
cis-1,2-Dichloroethene	ND ug/m	3		1.3	1.55		01/30/14 23:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/m	3		1.3	1.55		01/30/14 23:18	156-60-5	
Tetrachloroethene	1.5 ug/m	3		1.1	1.55		01/30/14 23:18	127-18-4	
Trichloroethene	ND ug/m	3	I	0.85	1.55		01/31/14 15:40	79-01-6	
Vinyl chloride	ND ug/m	3		0.40	1.55		01/30/14 23:18	75-01-4	



QUALITY CONTROL DATA

Project: 54 Pace Project No.: 10	46-001 Former 255520	Quailty Cleane									
QC Batch: A	IR/19314		Analysis M	tethod:	TC	D-15					
QC Batch Method; T	O-15		Analysis D	escription:	тс	D15 MSV AII	R Low Le	evel			
Associated Lab Sample	es: 10255520	0001, 10255520003									
METHOD BLANK: 16	17456	· · · · · · · · · · · · · · · · · · ·	Matri	ix: Air							
Associated Lab Sample	s: 10255520	0001, 10255520003									
			Blank	Reporti	na						
Paramete	۲	Units	Result	Limit	5	Analyze	ed	Quali	fiers		
cis-1.2-Dichloroethene		ua/m3	N	 D	0.81	01/30/14 1	2:33			-	
Tetrachloroethene		ug/m3	N	D	0.69	01/30/14 1	2:33				
trans-1,2-Dichloroethen	e	ug/m3	N	C	0.81	01/30/14 1	2:33				
Trichloroethene		ug/m3	NI	D	0.55	01/30/14 1	2:33				
Vinyl chloride		ug/m3	N	D	0.26	01/30/14 1	2:33				
LABORATORY CONTR	OL SAMPLE:	1617457									
			Spike	LCS		LCS	% Re	ec.			
Paramete	r	Units	Conc.	Result	9	% Rec	Limit	S	Qua	alifiers	
cis-1,2-Dichloroethene		ug/m3	40.3	39.0		97	7	1-135			
Tetrachloroethene		ug/m3	69	80.0		116	6	9-136			
trans-1,2-Dichloroethene	e	ug/m3	40.3	37.1		92	7	0-131			
Trichloroethene		ug/m3	54.6	52.5		96	7	0-135			
Vinyl chloride		ug/m3	26	24.4		94	6	9-132			
SAMPLE DUPLICATE:	1617845										
			10255499001	Dup				Max			
Parameter	r	Units	Result	Resull		RPD		RPD		Qualifiers	
cis-1,2-Dichloroethene		ug/m3	NE)	ND				25		
Tetrachloroethene		ug/m3	NE)	ND				25		
trans-1,2-Dichloroethene	e	ug/m3	NE)	ND				25		
Trichloroethene		ug/m3	30.0	כ	30.0		.2		25		
Vinyl chloride		ug/m3	NE)	ND				25		



QUALITY CONTROL DATA

Project:	5446-001 Forn	ner Quailty Cleane				
Pace Project No.:	10255520					
QC Batch:	AIR/19326		Analysis Met	hod: 7	0-15	
QC Batch Method:	C Batch Method: TO-15		Analysis Description:		O15 MSV AIR Low	Level
Associated Lab Sar	nples: 10255	520002				
METHOD BLANK:	1618172		Matrix:	Air		
Associated Lab Sar	nples: 10255	520002				
			Blank	Reporting		
Paran	neter	Units	Result	Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethe	ene	ug/m3	ND	0.81	01/31/14 16:03	
Tetrachloroethene		ug/m3	ND	0.69	01/31/14 16:03	
trans-1,2-Dichloroet	hene	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

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	



QUALIFIERS

Project:5446-001 Former Quailty CleanePace 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.



10255520003

0A-1

QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

AIR/19314

TO-15



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

				: ; ; ; ;																		_	10955	520
Section A Required Client Information:	Section B Required Project Inform	nation:			Section	C		ana An tao		an dh Nasa	n da da in	- -					1	an ar An an a	18	33	76	Pa	ige: / of	1
Company: Robert Flow & Ascricht	Report To:	. Pla	nt-		Attentior	normauon.	ala 1	- Pla	-f						٦	, .			Pro	oran				
Address: Address: ASO Confinnia Contre Blue	Сору То:			Company Name: + King & ASCALL for The									UST Superfund Emissions Clean Air Act						Air Act					
Hobert, W1 54155				Address: ACD Gates (Center Rind								··	Voluntary Clean Up T Dry Clean RCRA Other 🐣											
Email To: n/a plant@relegint.com	Purchase Order No.:			Pace Quote Reference:								-							Reporting Units					
Phone: Fax: Fax: 720-602-904	Project Name: Former, Que litre Clanaes				Pace Project Manager/Sales Rep. Caro Limpo True Ct									Sampling by State PPMV Other										
Requested Due Date/TAT:	Project Number: 54416 -001				Pace Profile #:									Report Level II					۱۷	.V Other				
*	Valid Media Codes MEDIA CODE Tediar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	AEDIA CODE	PID Reading (Client only)	COMPOSITE STAP				Canlster Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Su C Nu	mma an mber	Co	Fl ntrol	low I Nun	nber	Metho	C. Filed C.	0.2 640 (2)	Out Internation	012 (M)	012	10 Short Liet	Pacel	- - ab ID
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Trans-DCE, VC		÷	• • • •			PRINT Name	of SAMPLER		<i>E.</i> 2	hst	ead	7-	DATE S	ilgned (N	MALOD	1721					Tema in °C		Received on Ice Custody Sealed Cooler	Samples Intact

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

AlleSemple Conclution, Upon Receipt Client Name: Rdzer J E Lee	ocument No.: N-A-106-rev.09 Project #:		Issuing Authority: Pace Minnesota Quality	Office
AlieSemple Gondition Client Name: Upon Receipte Rdzer J E Lee	Project #:	·		
		MO#	: 1025552	20
Courier:fFed ExUPSUSPS CommercialPaceOther:	Client			
Tracking Number: 5753 4197 5161		1025552		
Custody Seal on Cooler/Box Present? Yes Se	als 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)): 1	Thermom. Used:	B88A912167504 B88A9132521491	72337080 805712447
Temp should be above freezing to 6°C Correction Factor:	E	Date & Initials of P	erson Examining Contents:	<u>Chy 1-21-1</u>
	1		Comments:	
Chain of Custody Present?	No 🗍 N/A	1	· · · · · · · · · · · · · · · · · · ·	
Chain of Custody Filled Out?	No 🗍 N/A	2.	······································	
Chain of Custody Relinquished?	<u>No </u>	3.	·	
Sampler Name and/or Signature on COC?	No 🗍 N/A	4.		
Samples Arrived within Hold Time?	No N/A	5.		
Short Hold Time Analysis (<72 hr)?	No N/A	6.	• 	
Rush Turn Around Time Requested?	No N/A	<u>7.</u>		
Sufficient Volume?		8.	ALC (1977)	
		9.		
-Pace containers Used?		40		
		11.		
Sample Labels Match COC2		12		
Samples Received: Arv Can, 55 Could and	vallers		1	
Canisters	Flow Controllers		Stand /	Alone G
Sample Number Can ID Sample Number	er	Can ID	Sample Number	Can ID
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CLIENT NOTIFICATION/RESOLUTION	Da	ate/Time:	Field Data Required?	Yes No
Comments/Resolution:				
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Project Manager Review:		Dater	1/2/10	
Jote: Whenever there is a discrepancy affecting North Carolina compliance same	oles, a copy of this	s form will be sent	to the North Carolina DEHNR	Certification Office (i.e. out c

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