December 22, 2021
File No. 25221094.00

Matthew and Tracy Fernette
62355 Mill Coulee Road
Prairie du Chien, WI 53821

Subject: Air Sampling Results
615 East Wisconsin Street
Prairie du Chien, Wisconsin

Dear Mr. and Mrs. Fernette:

On behalf of the Prairie du Chien Redevelopment Authority (RDA), SCS Engineers (SCS) is providing results for air samples collected from your property in December 2021. The sampling included collection of one 24-hour indoor air sample from the basement and one 30-minute sub-slab air sample from a port SCS installed through the basement floor. The laboratory report is included in **Attachment A**.

The sample concentrations do not exceed Wisconsin Department of Natural Resources (WDNR) health-based standards. Additional details are provided below.

- Tetrachloroethene (PCE) was detected in the indoor air sample at a concentration of 6.0 micrograms per cubic meter (ug/m^3). This concentration does not exceed the WDNR residential indoor air vapor action level (VAL) of 42 ug/m^3 for PCE.

- PCE was detected in the sub-slab sample at concentration of 1,130 ug/m^3. The concentration does not exceed the WDNR residential sub-slab vapor risk screening level (VRSL) for PCE of 1,400 ug/m^3.

Additional information regarding interpretation of test results is provided in the WDNR guidance document included in **Attachment B**. SCS will contact you to discuss whether or not any follow-up sampling is required by the WDNR.

Please feel free to contact Robert Langdon of SCS at (608) 212-3995 or Matt Vitale of WDNR at (715) 492-1222 if you have any questions concerning the testing.

Sincerely,

Robert Langdon
Senior Project Manger
SCS Engineers

Mark R. Huber, PE
Project Director
SCS Engineers

REL/AJR/MRH

cc: Matt Vitale, Wisconsin Department of Natural Resources
Garth Frable, City of Prairie du Chien
Bob Standorf, City of Prairie du Chien Redevelopment Authority
Chad Abram, City of Prairie du Chien Redevelopment Authority

Enclosures: Attachment A – Laboratory Report
Attachment B – WDNR Guidance Document RR-977, Dated October 2014

I:\25221094.00\Correspondence\Other\615 E. Wisconsin Results\211222_615 E. Wisconsin Sample Results.docx

Attachment A

Laboratory Report

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

December 16, 2021

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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

SAMPLE SUMMARY

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10590317001	**615 E. Wisconsin St-IA**	Air	12/03/21 09:02	12/07/21 11:50
10590317002	**615 E. Wisconsin St-SB**	Air	12/03/21 10:00	12/07/21 11:50
10590317003	**UNUSED PACE0666**	Air		12/07/21 11:50

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

SAMPLE ANALYTE COUNT

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10590317001	**615 E. Wisconsin St-IA**	TO-15	AJA	5	PASI-M
10590317002	**615 E. Wisconsin St-SB**	TO-15	AJA	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

SUMMARY OF DETECTION

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10590317001	**615 E. Wisconsin St-IA**					
TO-15	Tetrachloroethene	6.0	ug/m3	1.0	12/15/21 17:39	
10590317002	**615 E. Wisconsin St-SB**					
TO-15	Tetrachloroethene	1130	ug/m3	12.1	12/16/21 12:49	

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

ANALYTICAL RESULTS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Sample: 615 E. Wisconsin St-IA **Lab ID: 10590317001** Collected: 12/03/21 09:02 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Vinyl chloride	**<0.13**	ug/m3	0.77	0.13	1.49		12/15/21 17:39	75-01-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.2	0.29	1.49		12/15/21 17:39	156-59-2	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.49		12/15/21 17:39	79-01-6	
Tetrachloroethene	**6.0**	ug/m3	1.0	0.44	1.49		12/15/21 17:39	127-18-4	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.49		12/15/21 17:39	156-60-5	

Sample: 615 E. Wisconsin St-SB **Lab ID: 10590317002** Collected: 12/03/21 10:00 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.34**	ug/m3	1.4	0.34	1.75		12/15/21 18:57	156-59-2	
trans-1,2-Dichloroethene	**<0.29**	ug/m3	1.4	0.29	1.75		12/15/21 18:57	156-60-5	
Tetrachloroethene	**1130**	ug/m3	12.1	5.1	17.5		12/16/21 12:49	127-18-4	
Trichloroethene	**<0.34**	ug/m3	1.9	0.34	1.75		12/15/21 18:57	79-01-6	
Vinyl chloride	**<0.15**	ug/m3	0.91	0.15	1.75		12/15/21 18:57	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

QC Batch: 789283
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10590317001, 10590317002

METHOD BLANK: 4200898 Matrix: Air
Associated Lab Samples: 10590317001, 10590317002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	12/15/21 11:14	
Tetrachloroethene	ug/m3	<0.29	0.69	12/15/21 11:14	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	12/15/21 11:14	
Trichloroethene	ug/m3	<0.20	1.1	12/15/21 11:14	
Vinyl chloride	ug/m3	<0.087	0.52	12/15/21 11:14	

LABORATORY CONTROL SAMPLE: 4200899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.4	40.6	94	70-137	
Tetrachloroethene	ug/m3	73.4	70.5	96	70-130	
trans-1,2-Dichloroethene	ug/m3	43.6	42.7	98	70-130	
Trichloroethene	ug/m3	58.4	60.9	104	70-130	
Vinyl chloride	ug/m3	28	26.0	93	70-137	

SAMPLE DUPLICATE: 4202828

Parameter	Units	10590316001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.28	<0.28		25	
Tetrachloroethene	ug/m3	23.2	23.6	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

SAMPLE DUPLICATE: 4202829

Parameter	Units	10590317001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
Tetrachloroethene	ug/m3	6.0	5.5	9	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590317

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10590317001	**615 E. Wisconsin St-IA**	TO-15	789283		
10590317002	**615 E. Wisconsin St-SB**	TO-15	789283		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

50281

Page: 1 of 1

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Dr
Madison, WI
Email To: rlangdon@scsengineers.com
Phone: 608 216 3995 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Robert Langdon SCS
Copy To:
Purchase Order No.:
Project Name: Black Hawk Junction
Project Number: 25221094.00

Section C Invoice Information:

Attention: Robert Langdon
Company Name: SCS
Address: 2830 Dairy Dr, Madison, WI 53718
Pace Quote Reference:
Pace Project Manager/Sales Rep. Kirsten Hagberg
Pace Profile #: 32630

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

Location of Sampling by State: WI

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

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

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	615 E. Wisconsin St. - IA	6LC	45	12/2/21	1005	12/3/21	902	-25	-1	3591	1029						X				001
2	127 S. Dousman St - IA	6LC	0	12/2/21	1200	12/3/21	1057	-30	-4	1490	2106						X				
3	201 S. Dousman St - IA	6LC	0	12/2/21	1402	12/3/21	1306	-28	-18	2092	0879						X				
4	615 E. Wisconsin St. - SB	6LC	100	12/3/21	922	12/3/21	1000	-30	-8	0194	0925						X				002
5	127 S. Dousman St - SB	6LC	45	12/3/21	1107	12/3/21	1140	-30	-8	1196	2968						X				
6	201 S Dousman St - SB	6LC	0	12/3/21	1320	12/3/21	1350	-29.5	-6	1522	1588						X				
7																					
8																					
9																					
10																					
11																					
12																					

Comments: Analyze for:
PCE, TCE, cis & Trans 12 DCE and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert Langdon / SCS	12/4	1200	Matt [illegible] / Pace	12/7/21	11:50

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Robert Langdon
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 12/4/21

WO#: 10590317

10590317

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt

Client Name: SCS Eng. **Project #:** **WO#: 10590317**

PM: KNH **Due Date: 12/14/21**

CLIENT: SCS Engineer

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 975384476341, 3526, 3537 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____

Date & Initials of Person Examining Contents: 12-7-21 MZ

				Comments:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: (Air Can) | Airbag				11. Individually Certified Cans? Y | (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No		12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes	☐ No		13.

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 10AIR17 ☒ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
615-IA	3591	1029	-3	+5					
11-SB	194	925	-7	+5					
Unused	1666	-	-3	-					

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ **Field Data Required?** ☐ Yes ☐ No

Comments/Resolution: _____

Project Manager Review: Kirsten Hogberg **Date:** 12/8/2021

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

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590317
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590317001
Client Sample ID: 615 E. Wisconsin St-IA

ProjSampleNum: 10590317001
Matrix: Air

Date Collected: 12/03/21 9:02
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.072	ppbv	0.3	1.49	12/15/21 17:39	AJA	156-59-2	
Tetrachloroethene	0.87	ppbv	0.15	1.49	12/15/21 17:39	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.49	12/15/21 17:39	AJA	156-60-5	
Trichloroethene	<0.053	ppbv	0.29	1.49	12/15/21 17:39	AJA	79-01-6	
Vinyl chloride	<0.05	ppbv	0.3	1.49	12/15/21 17:39	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590317
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590317002
Client Sample ID: 615 E. Wisconsin St-SB

ProjSampleNum: 10590317002
Matrix: Air

Date Collected: 12/03/21 10:00
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.084	ppbv	0.35	1.75	12/15/21 18:57	AJA	156-59-2	
Tetrachloroethene	164	ppbv	1.8	17.5	12/16/21 12:49	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.072	ppbv	0.35	1.75	12/15/21 18:57	AJA	156-60-5	
Trichloroethene	<0.062	ppbv	0.35	1.75	12/15/21 18:57	AJA	79-01-6	
Vinyl chloride	<0.058	ppbv	0.35	1.75	12/15/21 18:57	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590317
Project Name: 25221094.00 Blackhawk Junction

PARAMETER FOOTNOTES

Attachment B

WDNR Guidance Document RR-977, Dated October 2014

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

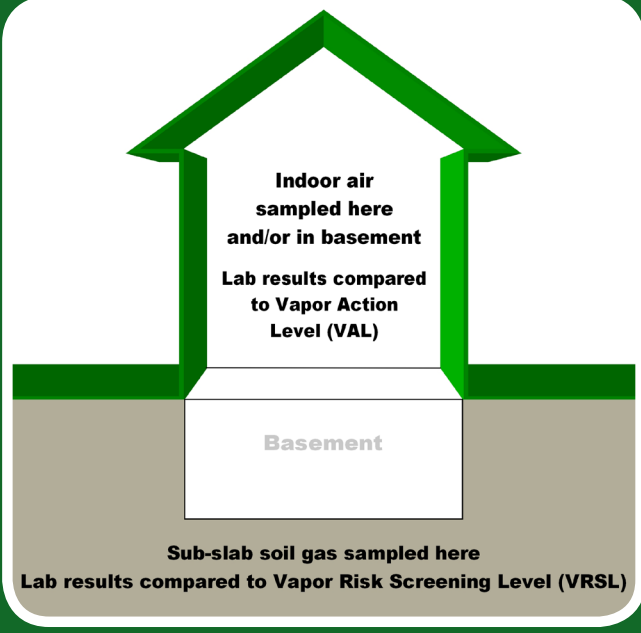
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

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

DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

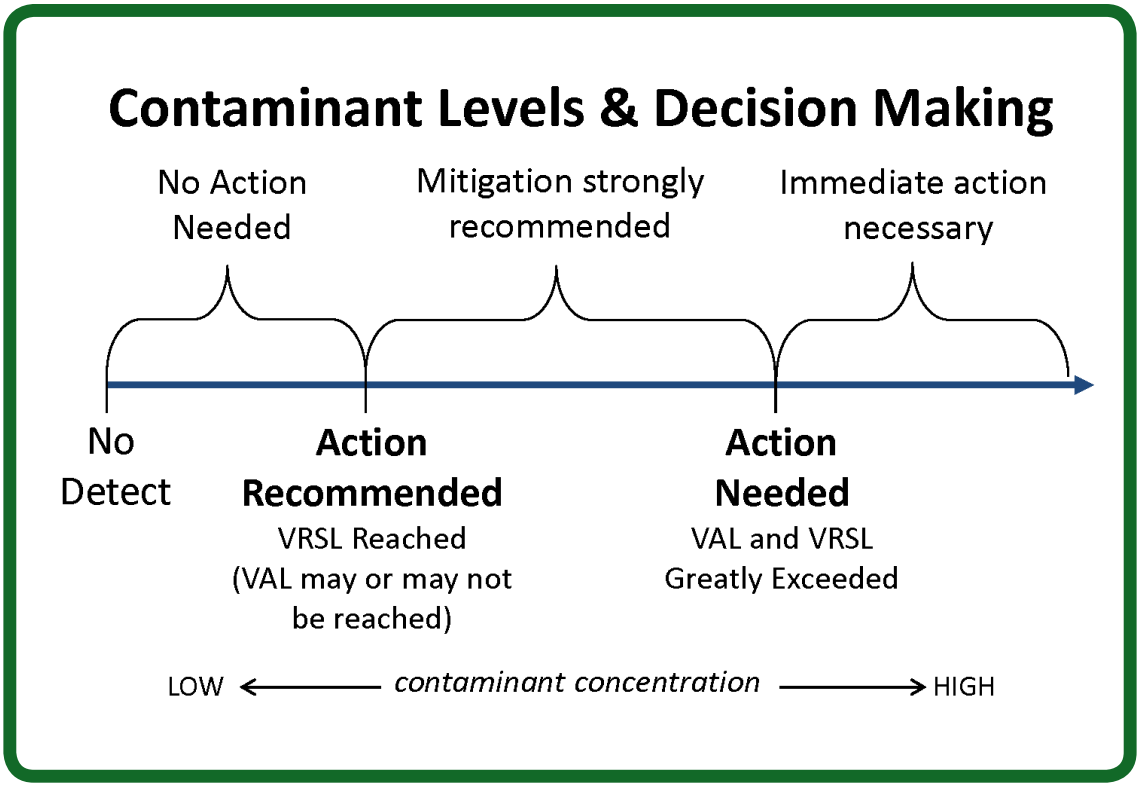
Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where µg/m3 represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit **dnr.wi.gov/topic/Brownfields/Vapor.html**

December 22, 2021
File No. 25221094.00

Ms. Imgard Hogenson
201 South Dousman Street
Prairie du Chien, WI 53821

Subject: Air Sampling Results
201 South Dousman Street
Prairie du Chien, Wisconsin

Dear Ms. Hogenson:

On behalf of the Prairie du Chien Redevelopment Authority (RDA), SCS Engineers (SCS) is providing results for air samples collected from your property in December 2021. The sampling included collection of one 24-hour indoor air sample from the basement and one 30-minute sub-slab air sample from a port SCS installed through the basement floor. The laboratory report is included in **Attachment A**.

The sample concentrations do not exceed Wisconsin Department of Natural Resources (WDNR) health-based standards. Additional details are provided below.

- Tetrachloroethene (PCE) was detected in the indoor air sample at a concentration of 2.5 micrograms per cubic meter (ug/m^3). This concentration does not exceed the WDNR residential indoor air vapor action level (VAL) of 42 ug/m^3 for PCE.

- PCE and trichloroethene (TCE) were detected in the sub-slab sample at concentrations of 195 ug/m^3 and 0.57 ug/m^3. The concentrations do not exceed the WDNR residential sub-slab vapor risk screening levels (VRSLs) for PCE or TCE, which are 1,400 ug/m^3 and 70 ug/m^3.

Additional information regarding interpretation of test results is provided in the WDNR guidance document included in **Attachment B**. SCS will contact you to discuss whether or not any follow-up sampling is required by WDNR.

Please feel free to contact Robert Langdon of SCS at (608) 212-3995 or Matt Vitale of WDNR at (715) 492-1222 if you have any questions concerning the testing.

Sincerely,

Robert Langdon
Senior Project Manger
SCS Engineers

Mark R. Huber, PE
Project Director
SCS Engineers

REL/AJR/MRH

cc: Matt Vitale, Wisconsin Department of Natural Resources
Garth Frable, City of Prairie du Chien
Bob Standorf, City of Prairie du Chien Redevelopment Authority
Chad Abram, City of Prairie du Chien Redevelopment Authority

Enclosures: Attachment A – Laboratory Report
Attachment B – WDNR Guidance Document RR-977, Dated October 2014

I:\25221094.00\Correspondence\Other\201 S. Dousman Results\211222_201 S. Dousman Sample Results.docx

Attachment A

Laboratory Report

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

December 16, 2021

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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

SAMPLE SUMMARY

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10590312001	**201 S. Dousman St-IA**	Air	12/03/21 13:06	12/07/21 11:50
10590312002	**201 S. Dousman St-SB**	Air	12/03/21 13:50	12/07/21 11:50

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10590312001	**201 S. Dousman St-IA**	TO-15	AJA	5	PASI-M
10590312002	**201 S. Dousman St-SB**	TO-15	AJA	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

SUMMARY OF DETECTION

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10590312001	**201 S. Dousman St-IA**					
TO-15	Tetrachloroethene	2.5	ug/m3	1.2	12/15/21 14:24	
10590312002	**201 S. Dousman St-SB**					
TO-15	Tetrachloroethene	195	ug/m3	1.2	12/15/21 15:03	
TO-15	Trichloroethene	0.57J	ug/m3	1.8	12/15/21 15:03	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Sample: 201 S. Dousman St-IA **Lab ID: 10590312001** Collected: 12/03/21 13:06 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.34**	ug/m3	1.4	0.34	1.76		12/15/21 14:24	156-59-2	
trans-1,2-Dichloroethene	**<0.30**	ug/m3	1.4	0.30	1.76		12/15/21 14:24	156-60-5	
Tetrachloroethene	**2.5**	ug/m3	1.2	0.51	1.76		12/15/21 14:24	127-18-4	
Trichloroethene	**<0.34**	ug/m3	1.9	0.34	1.76		12/15/21 14:24	79-01-6	
Vinyl chloride	**<0.15**	ug/m3	0.92	0.15	1.76		12/15/21 14:24	75-01-4	

Sample: 201 S. Dousman St-SB **Lab ID: 10590312002** Collected: 12/03/21 13:50 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.4	0.33	1.68		12/15/21 15:03	156-59-2	
trans-1,2-Dichloroethene	**<0.28**	ug/m3	1.4	0.28	1.68		12/15/21 15:03	156-60-5	
Tetrachloroethene	**195**	ug/m3	1.2	0.49	1.68		12/15/21 15:03	127-18-4	
Trichloroethene	**0.57J**	ug/m3	1.8	0.33	1.68		12/15/21 15:03	79-01-6	
Vinyl chloride	**<0.15**	ug/m3	0.87	0.15	1.68		12/15/21 15:03	75-01-4	

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

QUALITY CONTROL DATA

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

QC Batch: 789283
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10590312001, 10590312002

METHOD BLANK: 4200898 Matrix: Air
Associated Lab Samples: 10590312001, 10590312002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	12/15/21 11:14	
Tetrachloroethene	ug/m3	<0.29	0.69	12/15/21 11:14	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	12/15/21 11:14	
Trichloroethene	ug/m3	<0.20	1.1	12/15/21 11:14	
Vinyl chloride	ug/m3	<0.087	0.52	12/15/21 11:14	

LABORATORY CONTROL SAMPLE: 4200899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.4	40.6	94	70-137	
Tetrachloroethene	ug/m3	73.4	70.5	96	70-130	
trans-1,2-Dichloroethene	ug/m3	43.6	42.7	98	70-130	
Trichloroethene	ug/m3	58.4	60.9	104	70-130	
Vinyl chloride	ug/m3	28	26.0	93	70-137	

SAMPLE DUPLICATE: 4202828

Parameter	Units	10590316001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.28	<0.28		25	
Tetrachloroethene	ug/m3	23.2	23.6	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

SAMPLE DUPLICATE: 4202829

Parameter	Units	10590317001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
Tetrachloroethene	ug/m3	6.0	5.5	9	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10590312001	**201 S. Dousman St-IA**	TO-15	789283		
10590312002	**201 S. Dousman St-SB**	TO-15	789283		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

50281

Page: 1 of 1

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Dr Madison, WI
Email To: rlangdon@scsengineers.com
Phone: 608 212 3995 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: Robert Langdon SCS
Copy To:
Purchase Order No.:
Project Name: Black Hawk Junction
Project Number: 25321094.00

Section C Invoice Information:

Attention: Robert Langdon
Company Name: SCS
Address: 2830 Dairy Dr, Madison, WI 53718
Pace Quote Reference:
Pace Project Manager/Sales Rep.: Kirsten Hayberg
Pace Profile #: 32630

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

Location of Sampling by State: WI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV X 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 DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	615 E. Wisconsin St. - IA	6LC	45	12/2/21	1005	12/3/21	902	-25	-1	35911029							X				
2	127 S. Dousman St - IA	6LC	0	12/2/21	1200	12/3/21	1057	-30	-4	14902106							X				
3	201 S Dousman St - IA	6LC	0	12/2/21	1402	12/3/21	1306	-29	-18	20920879							X				001
4	615 E. Wisconsin ST. - SB	6LC	100	12/3/21	922	12/3/21	1000	-30	-8	01940925							X				
5	127 S. Dousman St - SB	6LC	45	12/3/21	1107	12/3/21	1140	-30	-8	11962968							X				
6	201 S Dousman St - SB	6LC	0	12/3/21	1320	12/3/21	1350	-29.5	-6	15226588							X				002
7																					
8																					
9																					
10																					
11																					
12																					

Comments: Analyze for: PCE, TCE, Cis & Trans 12 DCE and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert Langdon / SCS	12/4	1200	Matt Gillaca	12/7/21	11:50

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Robert Langdon

SIGNATURE of SAMPLER: Robert Langdon

DATE Signed (MM / DD / YY): 12/4/21

WO#: 10590312

10590312

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt **Client Name:** SCS Eng. **Project #:** **WO#: 10590312**

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

PM: KNH **Due Date: 12/14/21**

CLIENT: SCS Engineer

Tracking Number: 975384476341, 3526, 3537 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____

Date & Initials of Person Examining Contents: 12-7-21 MZ

				Comments:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: (Air Can) | Airbag				11. Individually Certified Cans? Y | (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No		12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes	☐ No		13.

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 10AIR17 ☒ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
201-IA	2092	879	-18.5	+5					
" -SB	1522	1588	-6	+5					

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ **Field Data Required?** ☐ Yes ☐ No

Comments/Resolution: _____

Project Manager Review: Kirsten Hogberg **Date:** 12/8/2021

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

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590312
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590312001
Client Sample ID: 201 S. Dousman St-IA

ProjSampleNum: 10590312001
Matrix: Air

Date Collected: 12/03/21 13:06
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.084	ppbv	0.35	1.76	12/15/21 14:24	AJA	156-59-2	
Tetrachloroethene	0.36	ppbv	0.17	1.76	12/15/21 14:24	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.074	ppbv	0.35	1.76	12/15/21 14:24	AJA	156-60-5	
Trichloroethene	<0.062	ppbv	0.35	1.76	12/15/21 14:24	AJA	79-01-6	
Vinyl chloride	<0.058	ppbv	0.35	1.76	12/15/21 14:24	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590312
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590312002
Client Sample ID: 201 S. Dousman St-SB

ProjSampleNum: 10590312002
Matrix: Air

Date Collected: 12/03/21 13:50
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.082	ppbv	0.35	1.68	12/15/21 15:03	AJA	156-59-2	
Tetrachloroethene	28.3	ppbv	0.17	1.68	12/15/21 15:03	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.069	ppbv	0.35	1.68	12/15/21 15:03	AJA	156-60-5	
Trichloroethene	0.1J	ppbv	0.33	1.68	12/15/21 15:03	AJA	79-01-6	
Vinyl chloride	<0.058	ppbv	0.33	1.68	12/15/21 15:03	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590312
Project Name: 25221094.00 Blackhawk Junction

PARAMETER FOOTNOTES

Attachment B

WDNR Guidance Document RR-977, Dated October 2014

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

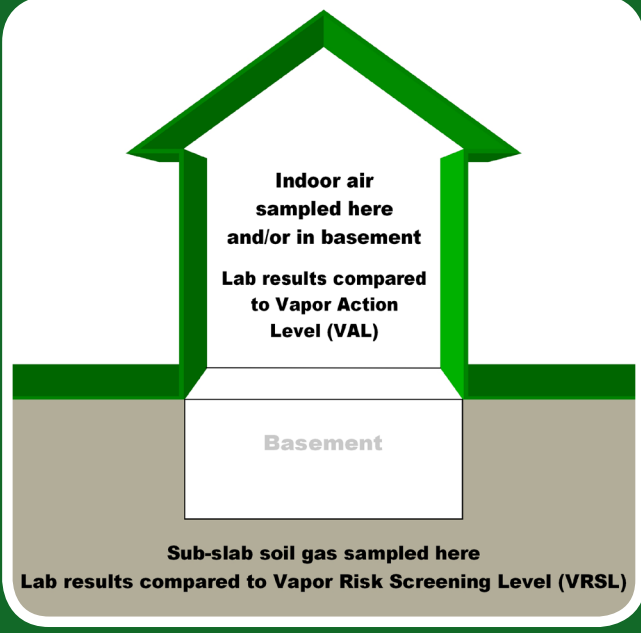
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

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

DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

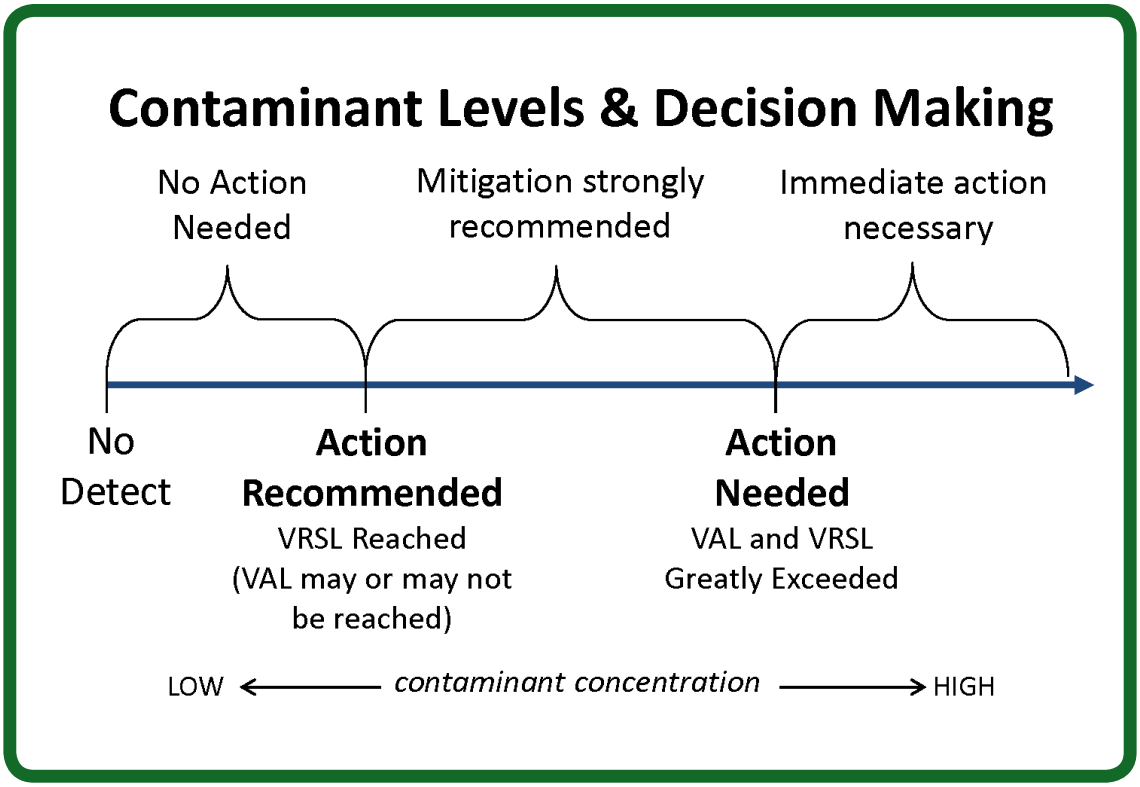
Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where µg/m3 represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit **dnr.wi.gov/topic/Brownfields/Vapor.html**

December 22, 2021
File No. 25221094.00

Don and Cynthia Hertrampf
127 South Dousman Street
Prairie du Chien, WI 53821

Subject: Air Sampling Results for Second Sampling Event
127 South Dousman Street
Prairie du Chien, Wisconsin

Dear Mr. and Mrs. Hertrampf:

On behalf of the Prairie du Chien Redevelopment Authority (RDA), SCS Engineers (SCS) is providing results for air samples collected from your property in December 2021. The sampling included collection of one 24-hour indoor air sample from the basement and one 30-minute sub-slab air sample from a port SCS installed through the basement floor. The laboratory report is included in **Attachment A**. Additional details are provided below.

- The chemicals detected in the indoor air sample do not exceed Wisconsin Department of Natural Resources (WDNR) vapor action levels (VALs) for residential buildings.
- Tetrachloroethene (PCE) was detected in the sub-slab sample at a concentration in excess of WDNR's vapor risk screening level (VRSL) for residential buildings.

The December 2021 sample results are consistent with results from the prior sampling performed in October 2021. Additional information regarding interpretation of test results is provided in the WDNR guidance document included in **Attachment B**.

We are currently discussing the sampling results with the WDNR and plan to contact you soon to discuss next steps.

Please feel free to contact Robert Langdon of SCS at (608) 212-3995 or Matt Vitale of WDNR at (715) 492-1222 if you have any questions concerning the testing.

Sincerely,

Robert Langdon
Senior Project Manger
SCS Engineers

Mark R. Huber, PE
Project Director
SCS Engineers

REL/AJR/MRH

cc: Matt Vitale, Wisconsin Department of Natural Resources
Garth Frable, City of Prairie du Chien
Bob Standorf, City of Prairie du Chien Redevelopment Authority
Chad Abram, City of Prairie du Chien Redevelopment Authority

Enclosures: Attachment A – Laboratory Report
Attachment B – WDNR Guidance Document RR-977, Dated October 2014

I:\25221094.00\Correspondence\Other\127 S. Dousman Results\Second Event\211222_127 S. Dousman Sample Results.docx

Attachment A

Laboratory Report

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

December 16, 2021

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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

SAMPLE SUMMARY

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10590316001	**127 S. Dousman St-IA**	Air	12/03/21 10:57	12/07/21 11:50
10590316002	**127 S. Dousman St-SB**	Air	12/03/21 11:40	12/07/21 11:50

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

SAMPLE ANALYTE COUNT

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10590316001	**127 S. Dousman St-IA**	TO-15	AJA	5	PASI-M
10590316002	**127 S. Dousman St-SB**	TO-15	AJA	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

SUMMARY OF DETECTION

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10590316001	**127 S. Dousman St-IA**					
TO-15	Tetrachloroethene	23.2	ug/m3	1.0	12/15/21 15:42	
10590316002	**127 S. Dousman St-SB**					
TO-15	Tetrachloroethene	3940	ug/m3	33.9	12/16/21 12:13	
TO-15	Trichloroethene	6.3	ug/m3	1.8	12/15/21 17:00	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Sample: 127 S. Dousman St-IA **Lab ID: 10590316001** Collected: 12/03/21 10:57 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Vinyl chloride	**<0.13**	ug/m3	0.76	0.13	1.46		12/15/21 15:42	75-01-4	
cis-1,2-Dichloroethene	**<0.28**	ug/m3	1.2	0.28	1.46		12/15/21 15:42	156-59-2	
Trichloroethene	**<0.29**	ug/m3	1.6	0.29	1.46		12/15/21 15:42	79-01-6	
Tetrachloroethene	**23.2**	ug/m3	1.0	0.43	1.46		12/15/21 15:42	127-18-4	
trans-1,2-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.46		12/15/21 15:42	156-60-5	

Sample: 127 S. Dousman St-SB **Lab ID: 10590316002** Collected: 12/03/21 11:40 Received: 12/07/21 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.3	0.32	1.64		12/15/21 17:00	156-59-2	
trans-1,2-Dichloroethene	**<0.28**	ug/m3	1.3	0.28	1.64		12/15/21 17:00	156-60-5	
Tetrachloroethene	**3940**	ug/m3	33.9	14.4	49.2		12/16/21 12:13	127-18-4	
Trichloroethene	**6.3**	ug/m3	1.8	0.32	1.64		12/15/21 17:00	79-01-6	
Vinyl chloride	**<0.14**	ug/m3	0.85	0.14	1.64		12/15/21 17:00	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

QC Batch: 789283
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10590316001, 10590316002

METHOD BLANK: 4200898 Matrix: Air
Associated Lab Samples: 10590316001, 10590316002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	12/15/21 11:14	
Tetrachloroethene	ug/m3	<0.29	0.69	12/15/21 11:14	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	12/15/21 11:14	
Trichloroethene	ug/m3	<0.20	1.1	12/15/21 11:14	
Vinyl chloride	ug/m3	<0.087	0.52	12/15/21 11:14	

LABORATORY CONTROL SAMPLE: 4200899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.4	40.6	94	70-137	
Tetrachloroethene	ug/m3	73.4	70.5	96	70-130	
trans-1,2-Dichloroethene	ug/m3	43.6	42.7	98	70-130	
Trichloroethene	ug/m3	58.4	60.9	104	70-130	
Vinyl chloride	ug/m3	28	26.0	93	70-137	

SAMPLE DUPLICATE: 4202828

Parameter	Units	10590316001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.28	<0.28		25	
Tetrachloroethene	ug/m3	23.2	23.6	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

SAMPLE DUPLICATE: 4202829

Parameter	Units	10590317001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
Tetrachloroethene	ug/m3	6.0	5.5	9	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	<0.25		25	
Trichloroethene	ug/m3	<0.29	<0.29		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221094.00 Blackhawk Junction
Pace Project No.: 10590316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10590316001	**127 S. Dousman St-IA**	TO-15	789283		
10590316002	**127 S. Dousman St-SB**	TO-15	789283		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

50281

Page: 1 of 1

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Dr Madison, WI
Email To: rlangdon@scsengineers.com
Phone: 6082123935 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Robert Langdon SCS
Copy To:
Purchase Order No.:
Project Name: Blackhawk Junction
Project Number: 25721094.00

Section C Invoice Information:

Attention: Robert Langdon
Company Name: SCS
Address: 2830 Dairy Dr, Madison, WI 53718
Pace Quote Reference:
Pace Project Manager/Sales Rep.: Kirsten Hagberg
Pace Profile #: 32630

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

Location of Sampling by State: WI

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

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

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	615 E. Wisconsin St. - IA	6LC	45	12/2/21	1005	12/3/21	902	-25	-1	3591	1029						X				
2	127 S. Dousman St - IA	6LC	0	12/2/21	1200	12/3/21	1057	-30	-4	1490	2106						X				001
3	201 S Dousman St - IA	6LC	0	12/2/21	1402	12/3/21	1300	-29	-18	2092	0879						X				
4	615 E. Wisconsin St. - SB	6LC	0	12/3/21	922	12/3/21	1000	-30	-8	0194	0925						X				
5	127 S. Dousman St - SB	6LC	0	12/3/21	1107	12/3/21	1140	-30	-8	1196	2968						X				002
6	201 S Dousman St - SB	6LC	0	12/3/21	1320	12/3/21	1350	-29.5	-6	1522	1588						X				
7																					
8																					
9																					
10																					
11																					
12																					

Comments: Analyze for: PCE, TCE, Cis & Trans 12 DCE and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert Langdon / SCS	12/4	1200	[signature] / Pace	12/7/21	11:50

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: Robert Langdon
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 12/4/21

WO#: 10590316

10590316

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR) - Air	Document Revised: 13Oct2021 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0113 Rev.01	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** SCS Eng. **Project #:** WO#: 10590316

PM: KNH **Due Date: 12/14/21**

CLIENT: SCS Engineer

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 9753 8447 6341, 3526, 3537 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____

Date & Initials of Person Examining Contents: 12-7-21 MZ

				Comments:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: (Air Can) | Airbag				11. Individually Certified Cans? Y | (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No		12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes	☐ No		13.

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 10AIR17 ☒ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
127-1A	1490	2106	-2.5	+5					
11-SB	1196	2968	-5.5	+5					

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ **Field Data Required?** ☐ Yes ☐ No

Comments/Resolution: _____

Project Manager Review: Kirsten Hogberg **Date:** 12/8/2021

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

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590316
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590316001
Client Sample ID: 127 S. Dousman St-IA

ProjSampleNum: 10590316001
Matrix: Air

Date Collected: 12/03/21 10:57
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.069	ppbv	0.3	1.46	12/15/21 15:42	AJA	156-59-2	
Tetrachloroethene	3.4	ppbv	0.15	1.46	12/15/21 15:42	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.062	ppbv	0.3	1.46	12/15/21 15:42	AJA	156-60-5	
Trichloroethene	<0.053	ppbv	0.29	1.46	12/15/21 15:42	AJA	79-01-6	
Vinyl chloride	<0.05	ppbv	0.29	1.46	12/15/21 15:42	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590316
Project Name: 25221094.00 Blackhawk Junction

Lab Sample No: 10590316002
Client Sample ID: 127 S. Dousman St-SB

ProjSampleNum: 10590316002
Matrix: Air

Date Collected: 12/03/21 11:40
Date Received: 12/07/21 11:50

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.079	ppbv	0.32	1.64	12/15/21 17:00	AJA	156-59-2	
Tetrachloroethene	571	ppbv	4.9	49.2	12/16/21 12:13	AJA	127-18-4	
trans-1,2-Dichloroethene	<0.069	ppbv	0.32	1.64	12/15/21 17:00	AJA	156-60-5	
Trichloroethene	1.2	ppbv	0.33	1.64	12/15/21 17:00	AJA	79-01-6	
Vinyl chloride	<0.054	ppbv	0.33	1.64	12/15/21 17:00	AJA	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10590316
Project Name: 25221094.00 Blackhawk Junction

PARAMETER FOOTNOTES

Attachment B

WDNR Guidance Document RR-977, Dated October 2014

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

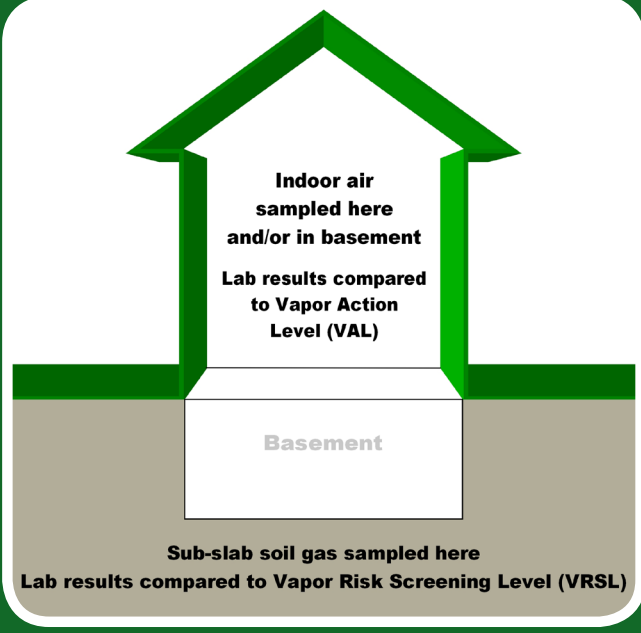
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

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

DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

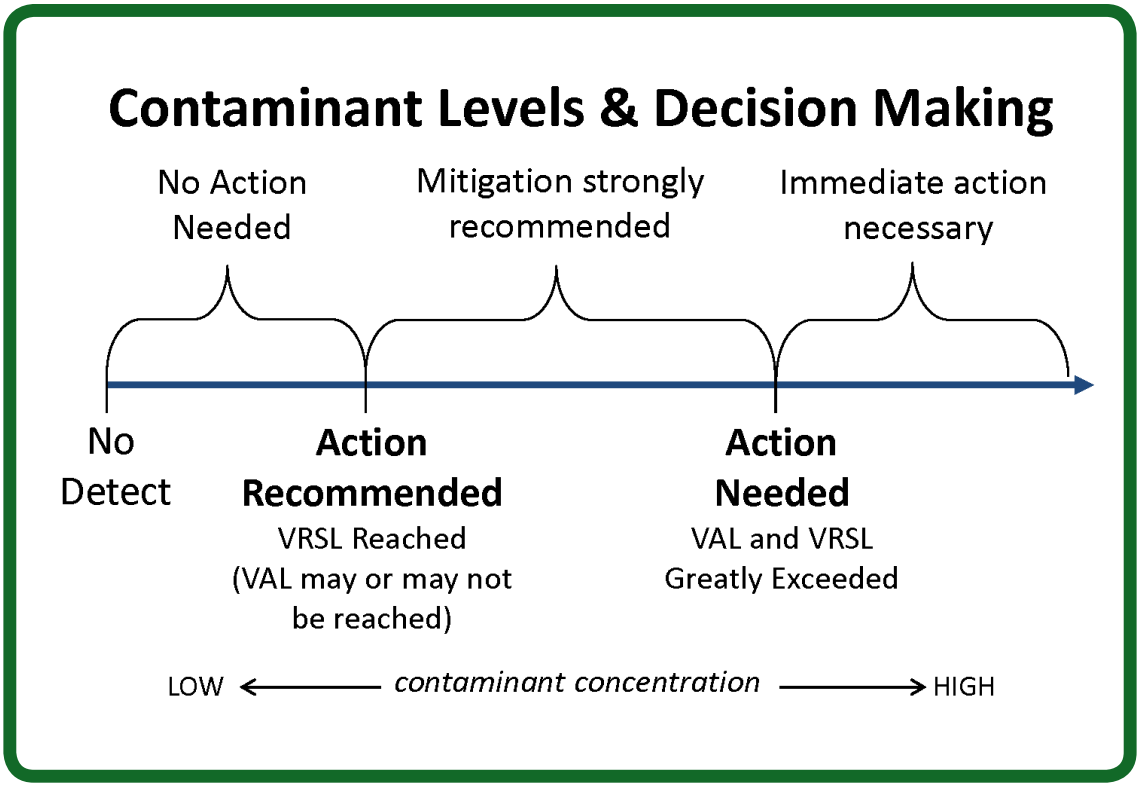
Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where µg/m3 represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit **dnr.wi.gov/topic/Brownfields/Vapor.html**