

From: Alexander, Nic <npa@alexandercompany.com>
Sent: Thursday, February 20, 2020 9:52 AM
To: mattm@dream-bikes.org
Cc: Koepke, Cynthia L - DNR; Schultz, Rebecca; Sterling, Alex
Subject: Vapor Testing Results and Mitigation - DreamBikes
Attachments: Northgate Environmental Test Results.pdf

Dear Matt,

Attached is a report from SCS engineers regarding the sub-slab vapor testing that occurred in your suite at the Northgate Shopping Center. By law, it is our duty to inform you of these test results. Please keep in mind that these levels were measured below the surface of the concrete slabs in your spaces – in other words, this is not the result of an air quality test in your workplace, and that air quality is not being questioned.

These chemicals are in place due to the previous tenancy of a dry cleaner at the shopping center many years ago. In order to remediate these issues, we will be working with SCS Engineers and other contractors to eventually install a vapor mitigation system within your space. This will consist of a series of pipes along your walls with an exhaust behind the building. We are striving to ensure that these systems will be as unobtrusive as possible, and we will provide you with more details on this project as we have them.

Please confirm that you have received this e-mail, and let me know should you have any questions or concerns. Sincerely,



NIC ALEXANDER
Vice President

PLEASE NOTE OUR NEW ADDRESS:
2450 Rimrock Road, Suite 100, Madison, WI 53713
p: 608.268.8104 **w:** www.alexandercompany.com

[historic preservation](#) | [urban revitalization](#) | [adaptive reuse](#)

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November 21, 2019
File No. 25211374.51

Mr. Joe Alexander, President
The Alexander Company
2450 Rimrock Road, Suite 100
Madison, WI 53713

Subject: Vapor Testing Results – 1117, 1131, and 1133 N. Sherman Ave.
Northgate Shopping Center, Madison, Wisconsin

Dear Mr. Alexander:

SCS Engineers (SCS), on behalf of Northgate Partnership, recently conducted vapor testing at the Northgate Shopping Center. Samples were collected at 1117 N. Sherman Ave. (Martial Arts), 1131 N. Sherman Ave. (Dream Bikes), and 1133 N. Sherman Ave. (Boomerangs). The sampling locations are shown on the attached figure, and the sampling results are summarized in the attached tables. The lab report is also attached.

The sampling results indicate the presence of two chemicals (tetrachloroethene and trichloroethene) in subsurface vapor at concentrations that are greater than the Wisconsin Department of Natural Resources (WDNR) vapor risk screening levels. The chemicals were also detected in an air sample collected in the unoccupied, unused, restricted access area of the basement below Martial Arts. The concentrations in the air sample were in excess of commercial indoor air vapor action levels.

The purpose of the vapor testing was to obtain information needed to design vapor mitigation systems for areas of the shopping center. The retail spaces in these areas have been previously identified as having vapors in the subsurface that are greater than the WDNR screening levels, and recent results are consistent with previous results. We will be proceeding with design of the mitigation system.

The WDNR requires that property owners and tenants are notified of the results. We understand that Alexander Company will notify their tenants of the results. The attached WDNR fact sheet explaining vapor intrusion may be helpful when notifying tenants. The WDNR has requested that you copy the WDNR on the notification to your tenants. The WDNR project manager's contact information is listed on the next page.



Mr. Joe Alexander
November 21, 2019
Page 2

Thank you for your cooperation. Please feel free to contact us at 608.224.2830 if you have any questions.

Sincerely,



Betty J. Socha, PhD, PG
Senior Project Manager
SCS Engineers



Robert E. Langdon
Senior Project Manager
SCS Engineers

BJS/lmh/REL

cc: Mr. Paul Roth, Northgate Partnership
Ms. Maggie Mackey

Ms. Cindy Koepke, WDNR
South Central Region
3911 Fish hatchery Road
Fitchburg, WI 53711-5397
608-275-3257
cynthia.koepke@wisconsin.gov

Encl. Table 1 – Sub-Slab Vapor Analytical Results Summary
Table 2 – Indoor Air Analytical Results Summary
Figure 1 – Site Map
Pace Analytical Laboratory Report dated August 30, 2019
WDNR Vapor Intrusion Quick Facts, Pub-RR-892

I:\3745\Correspondence-Other\2019-11 Alexander Update\191121_Alexander_Vapor Monitoring Results.docx

Table 1. Sub-Slab* Vapor Analytical Results Summary
Laundry Land Cleaners/SCS Project #25211374.51
 (Results are in ppbv)

N. Sherman Ave.	Business as of March 29, 2018	Sample Name	Sampling Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
1117	Martial Arts	1117 South	8/21/2019	--	<0.094	<0.12	<u>5,820</u>	7	<0.085
1131	Dream Bikes	1131 North	8/21/2019	(1)	<466	<608	<u>509,000</u>	<u>4,760</u>	<416
		1131 South	8/21/2019	(2)	<0.094	<0.12	<u>15,700</u>	1.3	<0.085
1133	Boomerangs	1133 North	8/21/2019	--	2.6	3.5	<u>7,950</u>	<u>167</u>	<0.085
		1133 South	8/21/2019	--	<0.094	<0.12	205	<0.082	<0.085
		Vapor Risk Screening Level (Small Commercial Buildings)			NE	NE	900	53	370

Abbreviations:

ppbv = parts per billion by volume

NE = No Established Standard

Notes:

*Martial Arts sample was collected from beneath the basement floor-slab; other locations do not have basements and samples were collected from beneath the first-floor floor slab.

1. Samples were collected in 6L summa canisters over 30 minute period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables.
3. **Bold & underlined** values meet or exceed Vapor Risk Screening Levels for small commercial buildings.

Laboratory Notes:

- (1) Tetrachloroethene = Analyte concentration exceeded the calibration range. The reported result is estimated.
- (2) Trichloroethene = Result may be biased high due to carryover from previously analyzed sample.
- (3) Tetrachloroethene = The reported result is from a dilution.
- (4) Internal laboratory standard quality control limit exceeded.

Created by:	<u>TLC</u>	Date:	<u>10/26/2012</u>
Last Rev by:	<u>REL</u>	Date:	<u>9/3/2019</u>
Checked by:	<u>LMH</u>	Date:	<u>9/5/2019</u>

I:\3745\Correspondence-Other\2019-11 Alexander Update\[Table 1_Sub-Slab-Vapor_Results_Revised_190903.xls]VOCs

Table 2. Indoor Air Analytical Results Summary
Project #25211374.51 - Laundry Land Cleaners, Madison, WI
 (Results are in ppbv)

Sample Name/Location	Sampling Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
1117 North Indoor Air /Martial Arts Basement*	8/22/2019	--	<0.084	<0.11	<u>194</u>	<u>1.9</u>	<0.077
Method Blank (DUP)	--	--	<0.13	<0.13	<0.074	<0.093	<0.20
	--	--	<0.13	<0.13	<0.074	<0.093	<0.20
Indoor Air Vapor Action Level (Residential Building)			NE	NE	6.2	0.39	0.65
Indoor Air Vapor Action Level (Small Commercial Building)			NE	NE	27	1.6	11

Abbreviations:

ppbv = parts per billion by volume

NE = No Established Standard

DUP = Duplicate sample

Notes:

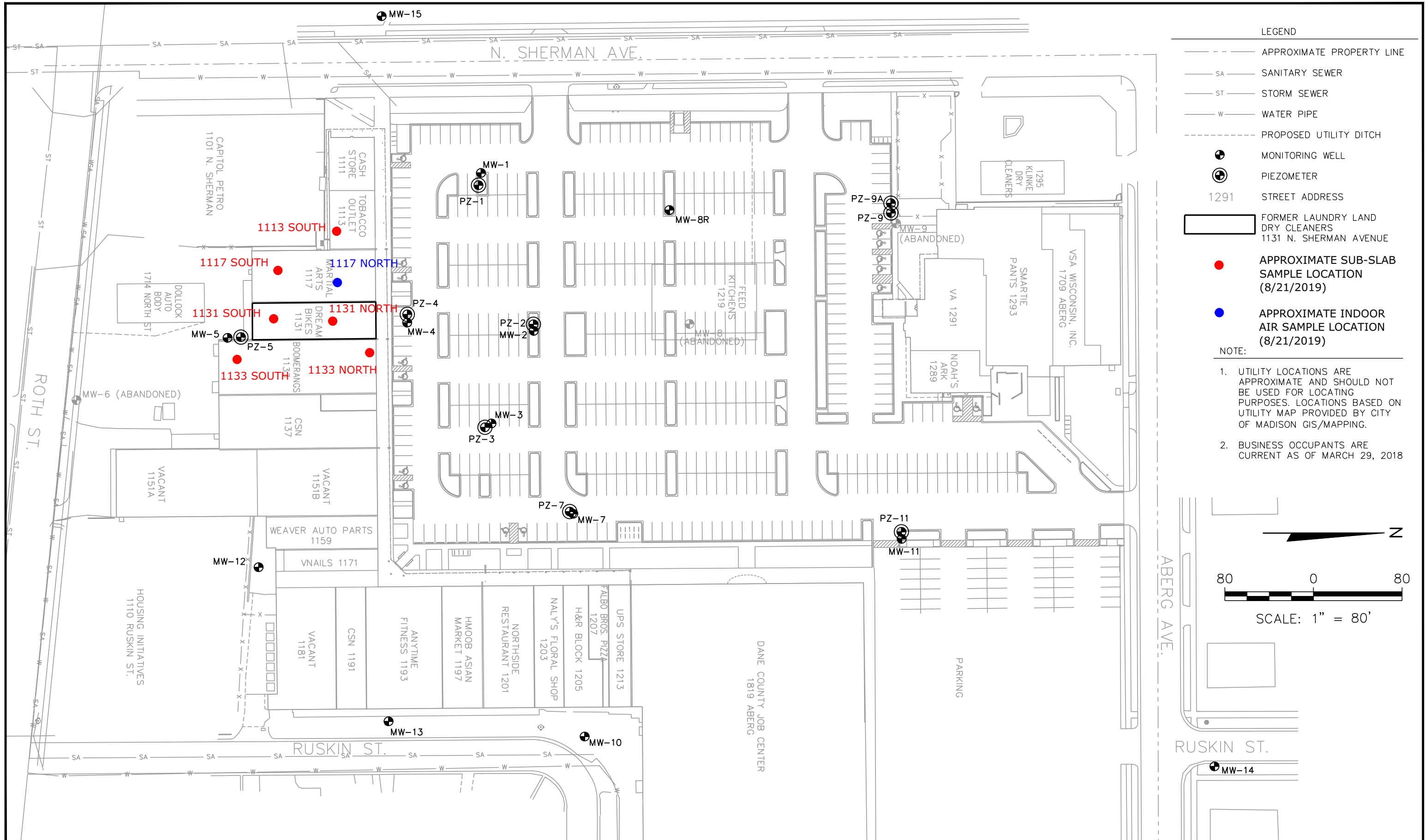
*Sample collected in the unoccupied, unused, restricted access area of the basement.

1. Samples were collected in 6L summa canisters over 24 hour period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables. Residential values are used for school and daycare facilities.
3. **Bold & underlined** values exceed Indoor Air Vapor Action Levels.

Created by: TLC
 Last Rev by: LMH
 Checked by: REL

Date: 10/26/2012
 Date: 9/3/2019
 Date: 9/5/2019

I:\3745\Correspondence-Other\2019-11 Alexander Update\[Table 2_Indoor-Air_Results.xls]VOCs



PROJECT NO. 25211374.50	DRAWN BY: BJM	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT NORTHGATE PARTNERSHIP 7625 BONETTI ROAD DANE, WI 53529	SITE NORTHGATE SHOPPING CENTER 1127 NORTH SHERMAN AVE. MADISON, WI	FIGURE 1
DRAWN: 08/25/16	CHECKED BY: BS				
REVISED: 06/28/18	APPROVED BY:				

August 30, 2019

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

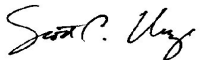
RE: Project: 1133 North
Pace Project No.: 10488801

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1133 North
Pace Project No.: 10488801

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 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 #: CL101
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

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SAMPLE SUMMARY

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10488801001	1133 North	Air	08/21/19 09:14	08/23/19 11:10
10488801002	1133 South	Air	08/21/19 09:50	08/23/19 11:10
10488801003	1117 South	Air	08/21/19 11:15	08/23/19 11:10
10488801004	1117 North Indoor Air	Air	08/22/19 10:50	08/23/19 11:10
10488801005	1131 North	Air	08/21/19 12:30	08/23/19 11:10
10488801006	1131 South	Air	08/21/19 12:55	08/23/19 11:10
10488801007	1113 South	Air	08/21/19 14:00	08/23/19 11:10

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SAMPLE ANALYTE COUNT

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10488801001	1133 North	TO-15	CH1	5	PASI-M
10488801002	1133 South	TO-15	CH1	5	PASI-M
10488801003	1117 South	TO-15	CH1	5	PASI-M
10488801004	1117 North Indoor Air	TO-15	CH1	5	PASI-M
10488801005	1131 North	TO-15	CH1	5	PASI-M
10488801006	1131 South	TO-15	CH1	5	PASI-M
10488801007	1113 South	TO-15	CH1	5	PASI-M

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ANALYTICAL RESULTS

Project: 1133 North
Pace Project No.: 10488801

Sample: 1133 North									
		Lab ID: 10488801001	Collected: 08/21/19 09:14			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	10.4	ug/m3	1.4	0.38	1.75		08/29/19 00:01	156-59-2	
trans-1,2-Dichloroethene	14.0	ug/m3	1.4	0.50	1.75		08/29/19 00:01	156-60-5	
Tetrachloroethene	54800	ug/m3	772	352	1120		08/30/19 01:17	127-18-4	
Trichloroethene	912	ug/m3	612	288	1120		08/30/19 01:17	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/29/19 00:01	75-01-4	

Sample: 1133 South									
		Lab ID: 10488801002	Collected: 08/21/19 09:50			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/28/19 22:04	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/28/19 22:04	156-60-5	
Tetrachloroethene	1410	ug/m3	36.2	16.5	52.5		08/29/19 23:28	127-18-4	
Trichloroethene	<0.45	ug/m3	0.96	0.45	1.75		08/28/19 22:04	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/28/19 22:04	75-01-4	

Sample: 1117 South									
		Lab ID: 10488801003	Collected: 08/21/19 11:15			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/28/19 23:03	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/28/19 23:03	156-60-5	
Tetrachloroethene	40100	ug/m3	386	176	560		08/30/19 00:50	127-18-4	
Trichloroethene	38.0	ug/m3	0.96	0.45	1.75		08/28/19 23:03	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/28/19 23:03	75-01-4	

Sample: 1117 North Indoor Air									
		Lab ID: 10488801004	Collected: 08/22/19 10:50			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		08/28/19 22:33	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		08/28/19 22:33	156-60-5	
Tetrachloroethene	1340	ug/m3	32.0	14.6	46.5		08/29/19 23:55	127-18-4	
Trichloroethene	10.2	ug/m3	0.85	0.40	1.55		08/28/19 22:33	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		08/28/19 22:33	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1133 North
Pace Project No.: 10488801

Sample: 1131 North									
		Lab ID: 10488801005	Collected: 08/21/19 12:30	Received: 08/23/19 11:10	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<1880	ug/m3	6930	1880	8602		08/29/19 01:25	156-59-2	
trans-1,2-Dichloroethene	<2450	ug/m3	6930	2450	8602		08/29/19 01:25	156-60-5	
Tetrachloroethene	3510000	ug/m3	5930	2700	8602		08/29/19 01:25	127-18-4	E
Trichloroethene	26000	ug/m3	4700	2210	8602		08/29/19 01:25	79-01-6	
Vinyl chloride	<1080	ug/m3	2240	1080	8602		08/29/19 01:25	75-01-4	

Sample: 1131 South									
		Lab ID: 10488801006	Collected: 08/21/19 12:55	Received: 08/23/19 11:10	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/29/19 00:31	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/29/19 00:31	156-60-5	
Tetrachloroethene	108000	ug/m3	772	352	1120		08/30/19 01:44	127-18-4	
Trichloroethene	7.2	ug/m3	0.96	0.45	1.75		08/29/19 00:31	79-01-6	C8
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/29/19 00:31	75-01-4	

Sample: 1113 South									
		Lab ID: 10488801007	Collected: 08/21/19 14:00	Received: 08/23/19 11:10	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		08/28/19 23:32	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		08/28/19 23:32	156-60-5	
Tetrachloroethene	7290	ug/m3	202	92.0	293		08/30/19 00:23	127-18-4	
Trichloroethene	19.1	ug/m3	1.0	0.47	1.83		08/28/19 23:32	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		08/28/19 23:32	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1133 North

Pace Project No.: 10488801

QC Batch: 629038 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10488801001, 10488801002, 10488801003, 10488801004, 10488801005, 10488801006, 10488801007

METHOD BLANK: 3393194 Matrix: Air
 Associated Lab Samples: 10488801001, 10488801002, 10488801003, 10488801004, 10488801005, 10488801006, 10488801007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	08/28/19 10:39	
Tetrachloroethene	ug/m3	<0.16	0.34	08/28/19 10:39	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	08/28/19 10:39	
Trichloroethene	ug/m3	<0.13	0.27	08/28/19 10:39	
Vinyl chloride	ug/m3	<0.063	0.13	08/28/19 10:39	

LABORATORY CONTROL SAMPLE: 3393195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	41.5	103	70-130	
Tetrachloroethene	ug/m3	68.9	71.9	104	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.7	101	70-130	
Trichloroethene	ug/m3	54.6	57.8	106	70-130	
Vinyl chloride	ug/m3	26	28.3	109	70-130	

SAMPLE DUPLICATE: 3394203

Parameter	Units	10487988001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	<0.49		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.44		25	
Trichloroethene	ug/m3	ND	<0.40		25	
Vinyl chloride	ug/m3	ND	<0.20		25	

SAMPLE DUPLICATE: 3394204

Parameter	Units	10487973001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	5.5	5.9	8	25	
Vinyl chloride	ug/m3	ND	<0.19		25	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1133 North
Pace Project No.: 10488801

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10488801001	1133 North	TO-15	629038		
10488801002	1133 South	TO-15	629038		
10488801003	1117 South	TO-15	629038		
10488801004	1117 North Indoor Air	TO-15	629038		
10488801005	1131 North	TO-15	629038		
10488801006	1131 South	TO-15	629038		
10488801007	1113 South	TO-15	629038		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>SCS Eng. neers</u> Address: <u>2839 Daisy Dr.</u> <u>Madison, WI 53718</u> Email To: <u>kingdon@scseng.com</u> Phone: <u>608-267-7329</u> Requested Date/Time: _____		Section B Required Project Information: Report To: <u>Sue</u> Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: _____		Section C Invoice Information: Attention: <u>Robert Langdon SCS Engineers</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: <u>32630</u>		Section C Page: <u>L / of 1</u>	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA TB 1 Liter Summa Can 6 Liter Summa Can LVP High Volume Puff Other		COLLECTED MEDIA CODE PID Reading (Client only)		Method: PM10 TO-3 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)	
ITEM #	1133 North	1133 South	1117 South	1117 North Indoor Air	1131 North	1131 South	1113 South
	610918/24	610418/21	610518/21	610218/21	610718/21	610818/21	610318/21
	844	919	1045	1130	1200	1225	1350
	8/24	8/21	8/21	8/21	8/21	8/21	8/21
	914	950	115	122	1230	1255	1400
	914	950	115	122	1230	1255	1400
	29	285.65	275.65	273.5	28	285.65	275.8
	6	1468	1506	2297	5	3486	6620
	0794	1468	1506	2297	0797	3486	6620
	11169	1202	0795	1881	1821	0681	0816
	601	002	003	004	005	006	007

WO#: 10488801

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Robert Langdon / SCS	8/21/17	1800	Wendy Mage	8/21/17	1110	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
						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/YYYY): 8/21/17

ORIGINAL

Comments:
 X PCB, TCE, CIB & THMs
 12 PCB & vinyl chloride



Document Name:
Air Sample Condition Upon Receipt
 Document No.:
 F-MN-A-106-rev.18

Document Revised: 31Jan2019
 Page 1 of 1
 Issuing Authority:

Air Sample Condition Upon Receipt

Client Name: **SCS ENGINEERS**

Project #: _____

WO#: 10488801

PM: **KNH** Due Date: **08/30/19**
 CLIENT: **SCS Engineer**

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

Tracking Number: **1083 0279 8036, 8025**

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

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

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermometer Used: G87A9170600254
 G87A9155100842
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 8/23/19 CMJ

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received:					Pressure Gauge # <input checked="" type="checkbox"/> 10AIR34 <input type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1133 NORTH	0794	1169	-7	+5					
1133 SOUTH	1468	1202	-7	"					
1117 SOUTH	1506	0795	-7	"					
1117 NORTH INHUR	2299	1881	-4	"					
1131 NORTH	3486	1821	-6	"					
	0797	8/23/19 CMJ							
1131 SOUTH	3486	0681	-7	"					
1113 SOUTH	0620	0816	-8	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Hunt

Date: 8/26/19

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)



ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801001 ProjSampleNum: 10488801001 Date Collected: 08/21/19 9:14
 Client Sample ID: 1133 North Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	10.4	0.35	2.6	1.75	08/29/19 0:01 CH1	156-59-2
Tetrachloroethene	772	54800	112	7950	1120	08/30/19 1:17 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	14.0	0.35	3.5	1.75	08/29/19 0:01 CH1	156-60-5
Trichloroethene	612	912	112	167	1120	08/30/19 1:17 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/29/19 0:01 CH1	75-01-4

Lab Sample No: 10488801002 ProjSampleNum: 10488801002 Date Collected: 08/21/19 9:50
 Client Sample ID: 1133 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/28/19 22:04 CH1	156-59-2
Tetrachloroethene	36.2	1410	5.3	205	52.5	08/29/19 23:28 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/28/19 22:04 CH1	156-60-5
Trichloroethene	0.96	<0.45	0.18	<0.082	1.75	08/28/19 22:04 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/28/19 22:04 CH1	75-01-4

Lab Sample No: 10488801003 ProjSampleNum: 10488801003 Date Collected: 08/21/19 11:15
 Client Sample ID: 1117 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/28/19 23:03 CH1	156-59-2
Tetrachloroethene	386	40100	56	5820	560	08/30/19 0:50 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/28/19 23:03 CH1	156-60-5
Trichloroethene	0.96	38.0	0.18	7	1.75	08/28/19 23:03 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/28/19 23:03 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801004 ProjSampleNum: 10488801004 Date Collected: 08/22/19 10:50
 Client Sample ID: 1117 North Indoor Air Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.2	<0.34	0.3	<0.084	1.55	08/28/19 22:33 CH1	156-59-2
Tetrachloroethene	32	1340	4.6	194	46.5	08/29/19 23:55 CH1	127-18-4
trans-1,2-Dichloroethene	1.2	<0.44	0.3	<0.11	1.55	08/28/19 22:33 CH1	156-60-5
Trichloroethene	0.85	10.2	0.16	1.9	1.55	08/28/19 22:33 CH1	79-01-6
Vinyl chloride	0.4	<0.20	0.15	<0.077	1.55	08/28/19 22:33 CH1	75-01-4

Lab Sample No: 10488801005 ProjSampleNum: 10488801005 Date Collected: 08/21/19 12:30
 Client Sample ID: 1131 North Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	6930	<1880	1720	<466	8602	08/29/19 1:25 CH1	156-59-2
Tetrachloroethene	5930	3510000	860	509000	8602	08/29/19 1:25 CH1	127-18-4
trans-1,2-Dichloroethene	6930	<2450	1720	<608	8602	08/29/19 1:25 CH1	156-60-5
Trichloroethene	4700	26000	860	4760	8602	08/29/19 1:25 CH1	79-01-6
Vinyl chloride	2240	<1080	862	<416	8602	08/29/19 1:25 CH1	75-01-4

Lab Sample No: 10488801006 ProjSampleNum: 10488801006 Date Collected: 08/21/19 12:55
 Client Sample ID: 1131 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/29/19 0:31 CH1	156-59-2
Tetrachloroethene	772	108000	112	15700	1120	08/30/19 1:44 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/29/19 0:31 CH1	156-60-5
Trichloroethene	0.96	7.2	0.18	1.3	1.75	08/29/19 0:31 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/29/19 0:31 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
 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: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801007 ProjSampleNum: 10488801007 Date Collected: 08/21/19 14:00
 Client Sample ID: 1113 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
------------	-----------------------	------------------	----------------------	-----------------	----	----------	---------

Air
 TO-15

cis-1,2-Dichloroethene	1.5	<0.40	0.37	<0.099	1.83	08/28/19 23:32 CH1	156-59-2
Tetrachloroethene	202	7290	29.3	1060	293	08/30/19 0:23 CH1	127-18-4
trans-1,2-Dichloroethene	1.5	<0.52	0.37	<0.13	1.83	08/28/19 23:32 CH1	156-60-5
Trichloroethene	1	19.1	0.18	3.5	1.83	08/28/19 23:32 CH1	79-01-6
Vinyl chloride	0.48	<0.23	0.18	<0.089	1.83	08/28/19 23:32 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request

What is Vapor Intrusion?



Chemicals used in commercial or industrial activities – dry cleaning chemicals, chemical degreasers and petroleum products such as gasoline – are sometimes spilled and leak into nearby soil or groundwater. When this happens, these chemicals may release gases or vapors, which travel from the contaminated groundwater or soil and move into nearby homes or businesses. This is called vapor intrusion.

The process when chemical vapors from contaminated soil or groundwater enter a home or other structure is called vapor intrusion.

Why are these chemical vapors a problem?

The chemicals that cause vapor intrusion are known as volatile organic compounds, or VOCs. Even when spilled into soil or water, these chemicals easily evaporate. They don't cause human health problems when they evaporate into the outside air, but when their vapors move into homes or businesses, they may cause long-term health problems for the people who live or work in those buildings. These vapors are usually odorless and colorless and undetectable without special testing equipment.

Why is vapor intrusion a concern?

Exposure to some chemical gases or vapors can cause an increased risk of adverse health effects. Whether or not a person experiences any health effects depends on several factors, including the amount and length of exposure, the toxicity of the chemical, and the individual's sensitivity to the chemical. When harmful chemical vapor intrusion is the result of environmental contamination, the Wisconsin Department of Natural Resources (DNR) requires that steps be taken to reduce or eliminate exposures which could be harmful to human health.

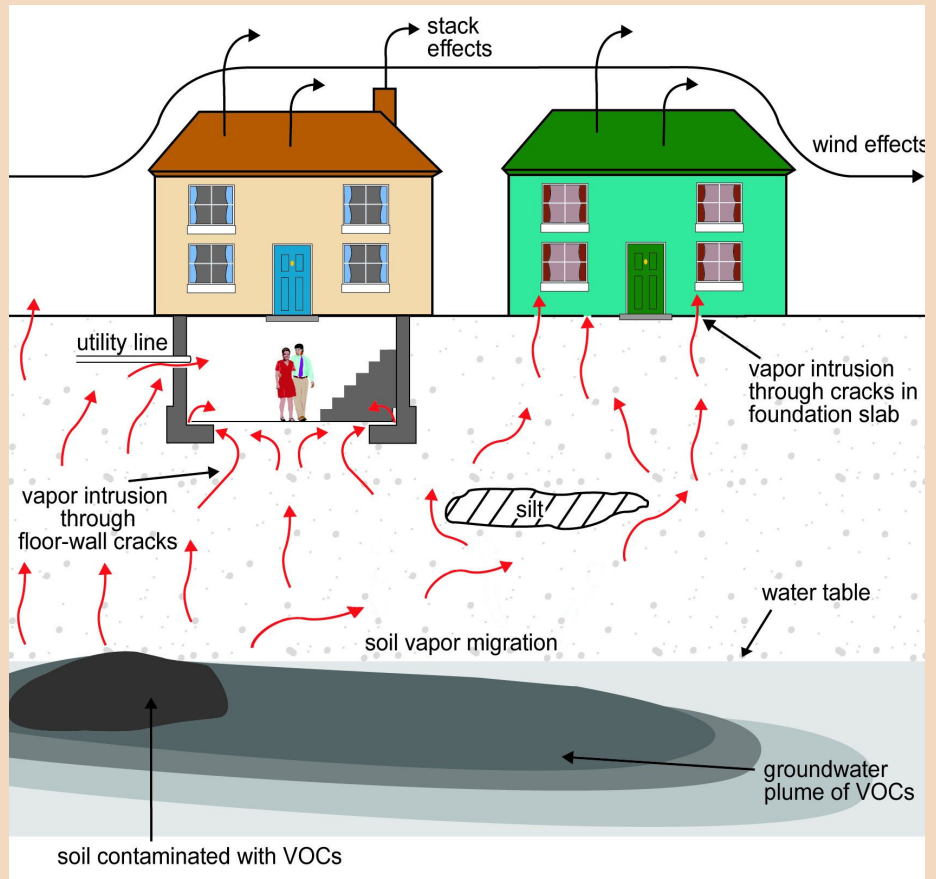
What should I expect if vapor intrusion is suspected near my home or business?

For businesses or other locations where VOC contamination has been found, the DNR requires that the potential for vapor intrusion be investigated. If you live near a site being cleaned up, you may be contacted by the site owner or others working on the cleanup. Your cooperation and consent will be requested before any testing or sampling is conducted on your property. Ask the person contacting you any questions you have about the work being done, or contact the DNR for more information (see DNR contact information on reverse). For more information about testing for vapor intrusion, see DNR-Pub-RR-954, "What to Expect During Vapor Intrusion Sampling."



How Vapors Enter a Building

If you live near a commercial or industrial facility or landfill where VOCs have entered either the soil or groundwater, there may be a potential for those chemicals to travel as vapors into your home or business. Vapors can enter buildings in various ways, including through cracks in the foundation and openings for utility lines. Building ventilation and weather can influence the extent of vapor intrusion.



Adapted from U.S. Environmental Protection Agency (EPA) graphic.
www.epa.gov/oswer/vaporintrusion/basic.html

Where can I find more information?

Health and vapor-related information can be found at the Wisconsin Department of Health Services (DHS) website at dhs.wisconsin.gov, search “Vapor.” For other health-related questions, please contact your local health department: www.dhs.wisconsin.gov/localhealth.

For more DNR information, please visit the DNR’s Remediation and Redevelopment (RR) Program’s Vapor Intrusion page at dnr.wi.gov/topic/Brownfields/Vapor.html.

Additional information can be obtained through the DNR field office in your region. To find the correct office, visit the RR Program Staff Contacts page at dnr.wi.gov/topic/Brownfields/Contact.html or call the RR Program at (608) 266-2111.

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.

From: Alexander, Nic <npa@alexandercompany.com>
Sent: Thursday, February 20, 2020 9:52 AM
To: Mark Felton; Beverly Krizan (Beverly@doorcreekchurch.org)
Cc: Sterling, Alex; Schultz, Rebecca; Koepke, Cynthia L - DNR
Subject: Vapor Testing Results and Mitigation - Boomerangs
Attachments: Northgate Environmental Test Results.pdf

Dear Mark / Bev,

Attached is a report from SCS engineers regarding the sub-slab vapor testing that occurred in your suite at the Northgate Shopping Center. By law, it is our duty to inform you of these test results. Please keep in mind that these levels were measured below the surface of the concrete slabs in your spaces – in other words, this is not the result of an air quality test in your workplace, and that air quality is not being questioned.

These chemicals are in place due to the previous tenancy of a dry cleaner at the shopping center many years ago. In order to remediate these issues, we will be working with SCS Engineers and other contractors to eventually install a vapor mitigation system within your space. This will consist of a series of pipes along your walls with an exhaust behind the building. We are striving to ensure that these systems will be as unobtrusive as possible, and we will provide you with more details on this project as we have them.

Please confirm that you have received this e-mail, and let me know should you have any questions or concerns. Sincerely,



NIC ALEXANDER
Vice President

PLEASE NOTE OUR NEW ADDRESS:
2450 Rimrock Road, Suite 100, Madison, WI 53713
p: 608.268.8104 **w:** www.alexandercompany.com

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November 21, 2019
File No. 25211374.51

Mr. Joe Alexander, President
The Alexander Company
2450 Rimrock Road, Suite 100
Madison, WI 53713

Subject: Vapor Testing Results – 1117, 1131, and 1133 N. Sherman Ave.
Northgate Shopping Center, Madison, Wisconsin

Dear Mr. Alexander:

SCS Engineers (SCS), on behalf of Northgate Partnership, recently conducted vapor testing at the Northgate Shopping Center. Samples were collected at 1117 N. Sherman Ave. (Martial Arts), 1131 N. Sherman Ave. (Dream Bikes), and 1133 N. Sherman Ave. (Boomerangs). The sampling locations are shown on the attached figure, and the sampling results are summarized in the attached tables. The lab report is also attached.

The sampling results indicate the presence of two chemicals (tetrachloroethene and trichloroethene) in subsurface vapor at concentrations that are greater than the Wisconsin Department of Natural Resources (WDNR) vapor risk screening levels. The chemicals were also detected in an air sample collected in the unoccupied, unused, restricted access area of the basement below Martial Arts. The concentrations in the air sample were in excess of commercial indoor air vapor action levels.

The purpose of the vapor testing was to obtain information needed to design vapor mitigation systems for areas of the shopping center. The retail spaces in these areas have been previously identified as having vapors in the subsurface that are greater than the WDNR screening levels, and recent results are consistent with previous results. We will be proceeding with design of the mitigation system.

The WDNR requires that property owners and tenants are notified of the results. We understand that Alexander Company will notify their tenants of the results. The attached WDNR fact sheet explaining vapor intrusion may be helpful when notifying tenants. The WDNR has requested that you copy the WDNR on the notification to your tenants. The WDNR project manager's contact information is listed on the next page.



Mr. Joe Alexander
November 21, 2019
Page 2

Thank you for your cooperation. Please feel free to contact us at 608.224.2830 if you have any questions.

Sincerely,



Betty J. Socha, PhD, PG
Senior Project Manager
SCS Engineers



Robert E. Langdon
Senior Project Manager
SCS Engineers

BJS/lmh/REL

cc: Mr. Paul Roth, Northgate Partnership
Ms. Maggie Mackey

Ms. Cindy Koepke, WDNR
South Central Region
3911 Fish hatchery Road
Fitchburg, WI 53711-5397
608-275-3257
cynthia.koepke@wisconsin.gov

Encl. Table 1 – Sub-Slab Vapor Analytical Results Summary
Table 2 – Indoor Air Analytical Results Summary
Figure 1 – Site Map
Pace Analytical Laboratory Report dated August 30, 2019
WDNR Vapor Intrusion Quick Facts, Pub-RR-892

I:\3745\Correspondence-Other\2019-11 Alexander Update\191121_Alexander_Vapor Monitoring Results.docx

Table 1. Sub-Slab* Vapor Analytical Results Summary
Laundry Land Cleaners/SCS Project #25211374.51
 (Results are in ppbv)

N. Sherman Ave.	Business as of March 29, 2018	Sample Name	Sampling Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
1117	Martial Arts	1117 South	8/21/2019	--	<0.094	<0.12	<u>5,820</u>	7	<0.085
1131	Dream Bikes	1131 North	8/21/2019	(1)	<466	<608	<u>509,000</u>	<u>4,760</u>	<416
		1131 South	8/21/2019	(2)	<0.094	<0.12	<u>15,700</u>	1.3	<0.085
1133	Boomerangs	1133 North	8/21/2019	--	2.6	3.5	<u>7,950</u>	<u>167</u>	<0.085
		1133 South	8/21/2019	--	<0.094	<0.12	205	<0.082	<0.085
		Vapor Risk Screening Level (Small Commercial Buildings)			NE	NE	900	53	370

Abbreviations:

ppbv = parts per billion by volume

NE = No Established Standard

Notes:

*Martial Arts sample was collected from beneath the basement floor-slab; other locations do not have basements and samples were collected from beneath the first-floor floor slab.

1. Samples were collected in 6L summa canisters over 30 minute period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables.
3. **Bold & underlined** values meet or exceed Vapor Risk Screening Levels for small commercial buildings.

Laboratory Notes:

- (1) Tetrachloroethene = Analyte concentration exceeded the calibration range. The reported result is estimated.
- (2) Trichloroethene = Result may be biased high due to carryover from previously analyzed sample.
- (3) Tetrachloroethene = The reported result is from a dilution.
- (4) Internal laboratory standard quality control limit exceeded.

Created by:	<u>TLC</u>	Date:	<u>10/26/2012</u>
Last Rev by:	<u>REL</u>	Date:	<u>9/3/2019</u>
Checked by:	<u>LMH</u>	Date:	<u>9/5/2019</u>

I:\3745\Correspondence-Other\2019-11 Alexander Update\[Table 1_Sub-Slab-Vapor_Results_Revised_190903.xls]VOCs

Table 2. Indoor Air Analytical Results Summary
Project #25211374.51 - Laundry Land Cleaners, Madison, WI
 (Results are in ppbv)

Sample Name/Location	Sampling Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
1117 North Indoor Air /Martial Arts Basement*	8/22/2019	--	<0.084	<0.11	<u>194</u>	<u>1.9</u>	<0.077
Method Blank (DUP)	--	--	<0.13	<0.13	<0.074	<0.093	<0.20
	--	--	<0.13	<0.13	<0.074	<0.093	<0.20
Indoor Air Vapor Action Level (Residential Building)			NE	NE	6.2	0.39	0.65
Indoor Air Vapor Action Level (Small Commercial Building)			NE	NE	27	1.6	11

Abbreviations:

ppbv = parts per billion by volume

NE = No Established Standard

DUP = Duplicate sample

Notes:

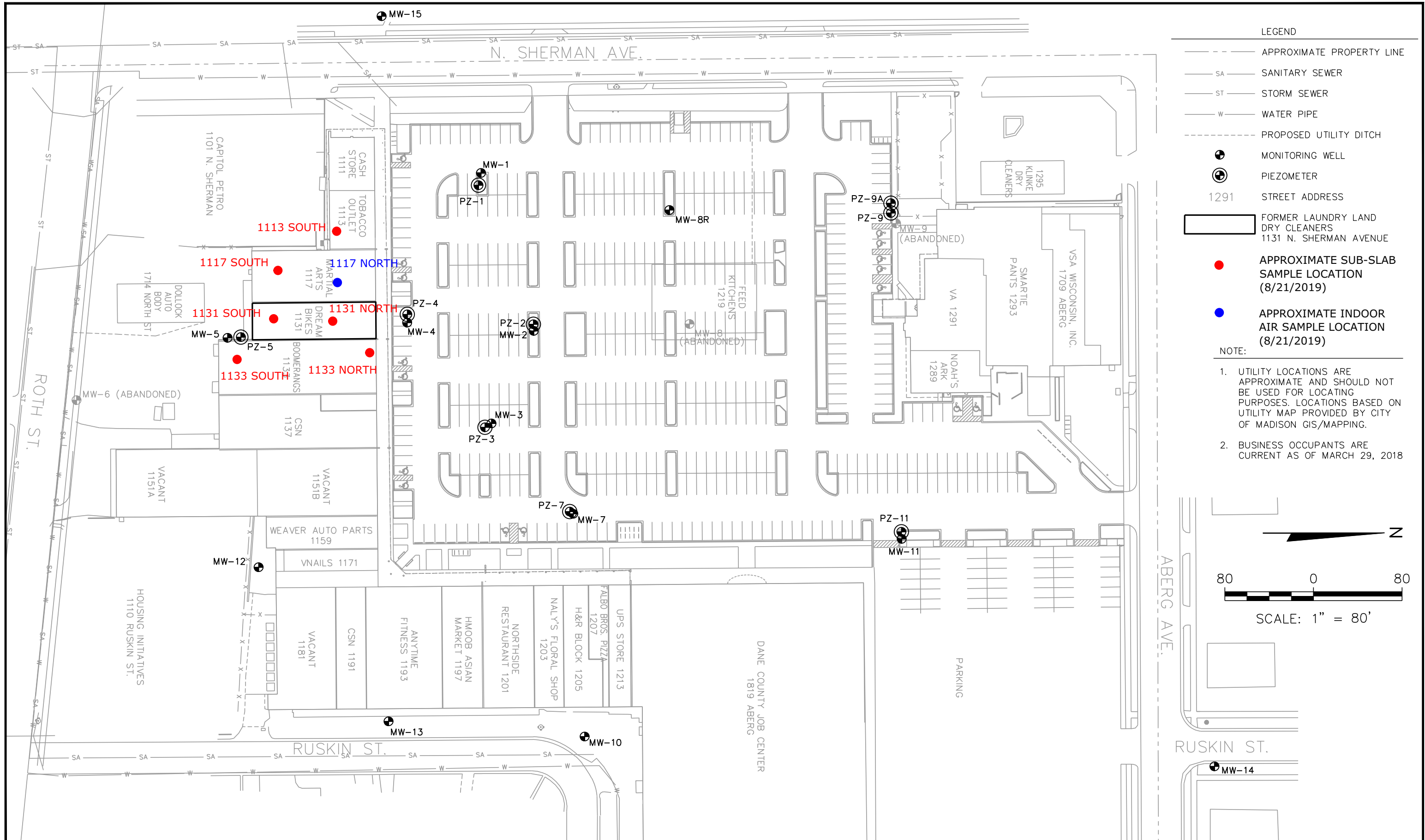
*Sample collected in the unoccupied, unused, restricted access area of the basement.

1. Samples were collected in 6L summa canisters over 24 hour period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on November 2017 USEPA Regional Screening Level Tables. Residential values are used for school and daycare facilities.
3. **Bold & underlined** values exceed Indoor Air Vapor Action Levels.

Created by: TLC
 Last Rev by: LMH
 Checked by: REL

Date: 10/26/2012
 Date: 9/3/2019
 Date: 9/5/2019

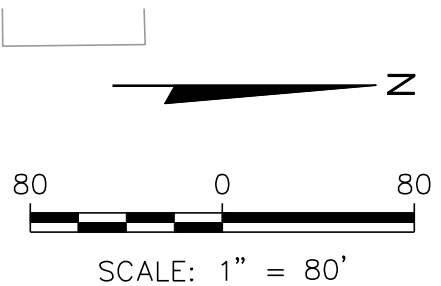
I:\3745\Correspondence-Other\2019-11 Alexander Update\[Table 2_Indoor-Air_Results.xls]VOCs



LEGEND

- APPROXIMATE PROPERTY LINE
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER PIPE
- - - PROPOSED UTILITY DITCH
- ⊕ MONITORING WELL
- ⊕ (with circle) PIEZOMETER
- 1291 STREET ADDRESS
- FORMER LAUNDRY LAND
DRY CLEANERS
1131 N. SHERMAN AVENUE
- APPROXIMATE SUB-SLAB
SAMPLE LOCATION
(8/21/2019)
- APPROXIMATE INDOOR
AIR SAMPLE LOCATION
(8/21/2019)

- NOTE:
1. UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR LOCATING PURPOSES. LOCATIONS BASED ON UTILITY MAP PROVIDED BY CITY OF MADISON GIS/MAPPING.
 2. BUSINESS OCCUPANTS ARE CURRENT AS OF MARCH 29, 2018



PROJECT NO. 25211374.50	DRAWN BY: BJM	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	NORTHGATE PARTNERSHIP 7625 BONETTI ROAD DANE, WI 53529	SITE	NORTHGATE SHOPPING CENTER 1127 NORTH SHERMAN AVE. MADISON, WI	FIGURE	
DRAWN: 08/25/16	CHECKED BY: BS								SITE MAP
REVISED: 06/28/18	APPROVED BY:								

August 30, 2019

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

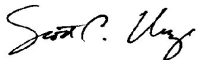
RE: Project: 1133 North
Pace Project No.: 10488801

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1133 North

Pace Project No.: 10488801

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 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 #: CL101

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10488801001	1133 North	Air	08/21/19 09:14	08/23/19 11:10
10488801002	1133 South	Air	08/21/19 09:50	08/23/19 11:10
10488801003	1117 South	Air	08/21/19 11:15	08/23/19 11:10
10488801004	1117 North Indoor Air	Air	08/22/19 10:50	08/23/19 11:10
10488801005	1131 North	Air	08/21/19 12:30	08/23/19 11:10
10488801006	1131 South	Air	08/21/19 12:55	08/23/19 11:10
10488801007	1113 South	Air	08/21/19 14:00	08/23/19 11:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10488801001	1133 North	TO-15	CH1	5	PASI-M
10488801002	1133 South	TO-15	CH1	5	PASI-M
10488801003	1117 South	TO-15	CH1	5	PASI-M
10488801004	1117 North Indoor Air	TO-15	CH1	5	PASI-M
10488801005	1131 North	TO-15	CH1	5	PASI-M
10488801006	1131 South	TO-15	CH1	5	PASI-M
10488801007	1113 South	TO-15	CH1	5	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1133 North
Pace Project No.: 10488801

Sample: 1133 North									
		Lab ID: 10488801001	Collected: 08/21/19 09:14			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	10.4	ug/m3	1.4	0.38	1.75		08/29/19 00:01	156-59-2	
trans-1,2-Dichloroethene	14.0	ug/m3	1.4	0.50	1.75		08/29/19 00:01	156-60-5	
Tetrachloroethene	54800	ug/m3	772	352	1120		08/30/19 01:17	127-18-4	
Trichloroethene	912	ug/m3	612	288	1120		08/30/19 01:17	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/29/19 00:01	75-01-4	

Sample: 1133 South									
		Lab ID: 10488801002	Collected: 08/21/19 09:50			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/28/19 22:04	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/28/19 22:04	156-60-5	
Tetrachloroethene	1410	ug/m3	36.2	16.5	52.5		08/29/19 23:28	127-18-4	
Trichloroethene	<0.45	ug/m3	0.96	0.45	1.75		08/28/19 22:04	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/28/19 22:04	75-01-4	

Sample: 1117 South									
		Lab ID: 10488801003	Collected: 08/21/19 11:15			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/28/19 23:03	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/28/19 23:03	156-60-5	
Tetrachloroethene	40100	ug/m3	386	176	560		08/30/19 00:50	127-18-4	
Trichloroethene	38.0	ug/m3	0.96	0.45	1.75		08/28/19 23:03	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/28/19 23:03	75-01-4	

Sample: 1117 North Indoor Air									
		Lab ID: 10488801004	Collected: 08/22/19 10:50			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		08/28/19 22:33	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		08/28/19 22:33	156-60-5	
Tetrachloroethene	1340	ug/m3	32.0	14.6	46.5		08/29/19 23:55	127-18-4	
Trichloroethene	10.2	ug/m3	0.85	0.40	1.55		08/28/19 22:33	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		08/28/19 22:33	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1133 North
Pace Project No.: 10488801

Sample: 1131 North									
		Lab ID: 10488801005	Collected: 08/21/19 12:30			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<1880	ug/m3	6930	1880	8602		08/29/19 01:25	156-59-2	
trans-1,2-Dichloroethene	<2450	ug/m3	6930	2450	8602		08/29/19 01:25	156-60-5	
Tetrachloroethene	3510000	ug/m3	5930	2700	8602		08/29/19 01:25	127-18-4	E
Trichloroethene	26000	ug/m3	4700	2210	8602		08/29/19 01:25	79-01-6	
Vinyl chloride	<1080	ug/m3	2240	1080	8602		08/29/19 01:25	75-01-4	

Sample: 1131 South									
		Lab ID: 10488801006	Collected: 08/21/19 12:55			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.75		08/29/19 00:31	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/m3	1.4	0.50	1.75		08/29/19 00:31	156-60-5	
Tetrachloroethene	108000	ug/m3	772	352	1120		08/30/19 01:44	127-18-4	
Trichloroethene	7.2	ug/m3	0.96	0.45	1.75		08/29/19 00:31	79-01-6	C8
Vinyl chloride	<0.22	ug/m3	0.46	0.22	1.75		08/29/19 00:31	75-01-4	

Sample: 1113 South									
		Lab ID: 10488801007	Collected: 08/21/19 14:00			Received: 08/23/19 11:10		Matrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		08/28/19 23:32	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		08/28/19 23:32	156-60-5	
Tetrachloroethene	7290	ug/m3	202	92.0	293		08/30/19 00:23	127-18-4	
Trichloroethene	19.1	ug/m3	1.0	0.47	1.83		08/28/19 23:32	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		08/28/19 23:32	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1133 North

Pace Project No.: 10488801

QC Batch: 629038 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10488801001, 10488801002, 10488801003, 10488801004, 10488801005, 10488801006, 10488801007

METHOD BLANK: 3393194 Matrix: Air
 Associated Lab Samples: 10488801001, 10488801002, 10488801003, 10488801004, 10488801005, 10488801006, 10488801007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	08/28/19 10:39	
Tetrachloroethene	ug/m3	<0.16	0.34	08/28/19 10:39	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	08/28/19 10:39	
Trichloroethene	ug/m3	<0.13	0.27	08/28/19 10:39	
Vinyl chloride	ug/m3	<0.063	0.13	08/28/19 10:39	

LABORATORY CONTROL SAMPLE: 3393195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	41.5	103	70-130	
Tetrachloroethene	ug/m3	68.9	71.9	104	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.7	101	70-130	
Trichloroethene	ug/m3	54.6	57.8	106	70-130	
Vinyl chloride	ug/m3	26	28.3	109	70-130	

SAMPLE DUPLICATE: 3394203

Parameter	Units	10487988001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	<0.49		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.44		25	
Trichloroethene	ug/m3	ND	<0.40		25	
Vinyl chloride	ug/m3	ND	<0.20		25	

SAMPLE DUPLICATE: 3394204

Parameter	Units	10487973001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	5.5	5.9	8	25	
Vinyl chloride	ug/m3	ND	<0.19		25	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1133 North

Pace Project No.: 10488801

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1133 North

Pace Project No.: 10488801

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10488801001	1133 North	TO-15	629038		
10488801002	1133 South	TO-15	629038		
10488801003	1117 South	TO-15	629038		
10488801004	1117 North Indoor Air	TO-15	629038		
10488801005	1131 North	TO-15	629038		
10488801006	1131 South	TO-15	629038		
10488801007	1113 South	TO-15	629038		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>SCS Eng. neers</u> Address: <u>2839 Daisy Dr.</u> <u>Madison, WI 53718</u> Email To: <u>kingdon@scseng.com</u> Phone: <u>608-267-7329</u> Requested Date/Time: _____		Section B Required Project Information: Report To: <u>Sue</u> Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: _____		Section C Invoice Information: Attention: <u>Robert Langdon SCS Engineers</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: <u>32630</u>		Section C Page: <u>L / of 1</u> 46259	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA TB 1 Liter Summa Can 6 Liter Summa Can LVP High Volume Puff Other		COLLECTED MEDIA CODE PID Reading (Client only)		Method: PM10 TO-3 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)	
ITEM #	1133 North	1133 South	1117 South	1117 North Indoor Air	1131 North	1131 South	1113 South
	610918/24	61048/21	61053/21	61002/21	61070/21	61012/21	61031/21
	8/24	8/21	8/21	8/21	8/21	8/21	8/21
	8:44	9:19	10:45	11:30	12:00	12:25	1:50
	9:14	9:50	11:55	12:22	12:30	12:55	1:40
	29	28.5	27.5	27	28	28.5	27.5
	6	6.5	6.5	3.5	5	6.5	8
	0794	1468	1506	2299	0797	3486	6620
	11169	1202	0795	1881	1821	0681	0816
	601	002	003	004	005	006	007

WO#: 10488801

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Robert Langdon / SCS	8/21/17	1800	Wendy Mage	8/21/17	1110	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact

Comments:
 X PCB, TCE, CIB & THMs
 12 PCB & vinyl chloride

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Robert Langdon
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 8/21/17

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
 Document No.:
 F-MN-A-106-rev.18

Document Revised: 31Jan2019
 Page 1 of 1
 Issuing Authority:

Air Sample Condition Upon Receipt

Client Name:
SCS ENGINEERS

Project #:

WO#: 10488801

PM: KNH Due Date: 08/30/19
 CLIENT: SCS Engineer

Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception

Tracking Number: 1083 0279 8036, 8025

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

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

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermometer Used: G87A9170600254
 G87A9155100842
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 8/23/19 CMJ

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received:					Pressure Gauge # <input checked="" type="checkbox"/> 10AIR34 <input type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1133 NORTH	0794	1169	-7	+5					
1133 SOUTH	1468	1202	-7	"					
1117 SOUTH	1506	0795	-7	"					
1117 NORTH INHOUR	2299	1881	-4	"					
1131 NORTH	3486	1821	-6	"					
	0797	8/23/19 CMJ							
1131 SOUTH	3486	0681	-7	"					
1113 SOUTH	0620	0816	-8	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Hunt

Date: 8/26/19

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)



ANALYTICAL RESULTS

Client: SCS Engineers
 Phone: 843.746.8525

Lab Project Number: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801001 ProjSampleNum: 10488801001 Date Collected: 08/21/19 9:14
 Client Sample ID: 1133 North Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	10.4	0.35	2.6	1.75	08/29/19 0:01 CH1	156-59-2
Tetrachloroethene	772	54800	112	7950	1120	08/30/19 1:17 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	14.0	0.35	3.5	1.75	08/29/19 0:01 CH1	156-60-5
Trichloroethene	612	912	112	167	1120	08/30/19 1:17 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/29/19 0:01 CH1	75-01-4

Lab Sample No: 10488801002 ProjSampleNum: 10488801002 Date Collected: 08/21/19 9:50
 Client Sample ID: 1133 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/28/19 22:04 CH1	156-59-2
Tetrachloroethene	36.2	1410	5.3	205	52.5	08/29/19 23:28 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/28/19 22:04 CH1	156-60-5
Trichloroethene	0.96	<0.45	0.18	<0.082	1.75	08/28/19 22:04 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/28/19 22:04 CH1	75-01-4

Lab Sample No: 10488801003 ProjSampleNum: 10488801003 Date Collected: 08/21/19 11:15
 Client Sample ID: 1117 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/28/19 23:03 CH1	156-59-2
Tetrachloroethene	386	40100	56	5820	560	08/30/19 0:50 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/28/19 23:03 CH1	156-60-5
Trichloroethene	0.96	38.0	0.18	7	1.75	08/28/19 23:03 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/28/19 23:03 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
 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: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801004 ProjSampleNum: 10488801004 Date Collected: 08/22/19 10:50
 Client Sample ID: 1117 North Indoor Air Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.2	<0.34	0.3	<0.084	1.55	08/28/19 22:33 CH1	156-59-2
Tetrachloroethene	32	1340	4.6	194	46.5	08/29/19 23:55 CH1	127-18-4
trans-1,2-Dichloroethene	1.2	<0.44	0.3	<0.11	1.55	08/28/19 22:33 CH1	156-60-5
Trichloroethene	0.85	10.2	0.16	1.9	1.55	08/28/19 22:33 CH1	79-01-6
Vinyl chloride	0.4	<0.20	0.15	<0.077	1.55	08/28/19 22:33 CH1	75-01-4

Lab Sample No: 10488801005 ProjSampleNum: 10488801005 Date Collected: 08/21/19 12:30
 Client Sample ID: 1131 North Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	6930	<1880	1720	<466	8602	08/29/19 1:25 CH1	156-59-2
Tetrachloroethene	5930	3510000	860	509000	8602	08/29/19 1:25 CH1	127-18-4
trans-1,2-Dichloroethene	6930	<2450	1720	<608	8602	08/29/19 1:25 CH1	156-60-5
Trichloroethene	4700	26000	860	4760	8602	08/29/19 1:25 CH1	79-01-6
Vinyl chloride	2240	<1080	862	<416	8602	08/29/19 1:25 CH1	75-01-4

Lab Sample No: 10488801006 ProjSampleNum: 10488801006 Date Collected: 08/21/19 12:55
 Client Sample ID: 1131 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
Air							
TO-15							
cis-1,2-Dichloroethene	1.4	<0.38	0.35	<0.094	1.75	08/29/19 0:31 CH1	156-59-2
Tetrachloroethene	772	108000	112	15700	1120	08/30/19 1:44 CH1	127-18-4
trans-1,2-Dichloroethene	1.4	<0.50	0.35	<0.12	1.75	08/29/19 0:31 CH1	156-60-5
Trichloroethene	0.96	7.2	0.18	1.3	1.75	08/29/19 0:31 CH1	79-01-6
Vinyl chloride	0.46	<0.22	0.18	<0.085	1.75	08/29/19 0:31 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
 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: 10488801
 Project Name: 1133 North

Lab Sample No: 10488801007 ProjSampleNum: 10488801007 Date Collected: 08/21/19 14:00
 Client Sample ID: 1113 South Matrix: Air Date Received: 08/23/19 11:10

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed	CAS No.
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Air
 TO-15

cis-1,2-Dichloroethene	1.5	<0.40	0.37	<0.099	1.83	08/28/19 23:32 CH1	156-59-2
Tetrachloroethene	202	7290	29.3	1060	293	08/30/19 0:23 CH1	127-18-4
trans-1,2-Dichloroethene	1.5	<0.52	0.37	<0.13	1.83	08/28/19 23:32 CH1	156-60-5
Trichloroethene	1	19.1	0.18	3.5	1.83	08/28/19 23:32 CH1	79-01-6
Vinyl chloride	0.48	<0.23	0.18	<0.089	1.83	08/28/19 23:32 CH1	75-01-4

SUPPLEMENTAL REPORT

Units Conversion Request

What is Vapor Intrusion?



Chemicals used in commercial or industrial activities – dry cleaning chemicals, chemical degreasers and petroleum products such as gasoline – are sometimes spilled and leak into nearby soil or groundwater. When this happens, these chemicals may release gases or vapors, which travel from the contaminated groundwater or soil and move into nearby homes or businesses. This is called vapor intrusion.

The process when chemical vapors from contaminated soil or groundwater enter a home or other structure is called vapor intrusion.

Why are these chemical vapors a problem?

The chemicals that cause vapor intrusion are known as volatile organic compounds, or VOCs. Even when spilled into soil or water, these chemicals easily evaporate. They don't cause human health problems when they evaporate into the outside air, but when their vapors move into homes or businesses, they may cause long-term health problems for the people who live or work in those buildings. These vapors are usually odorless and colorless and undetectable without special testing equipment.

Why is vapor intrusion a concern?

Exposure to some chemical gases or vapors can cause an increased risk of adverse health effects. Whether or not a person experiences any health effects depends on several factors, including the amount and length of exposure, the toxicity of the chemical, and the individual's sensitivity to the chemical. When harmful chemical vapor intrusion is the result of environmental contamination, the Wisconsin Department of Natural Resources (DNR) requires that steps be taken to reduce or eliminate exposures which could be harmful to human health.

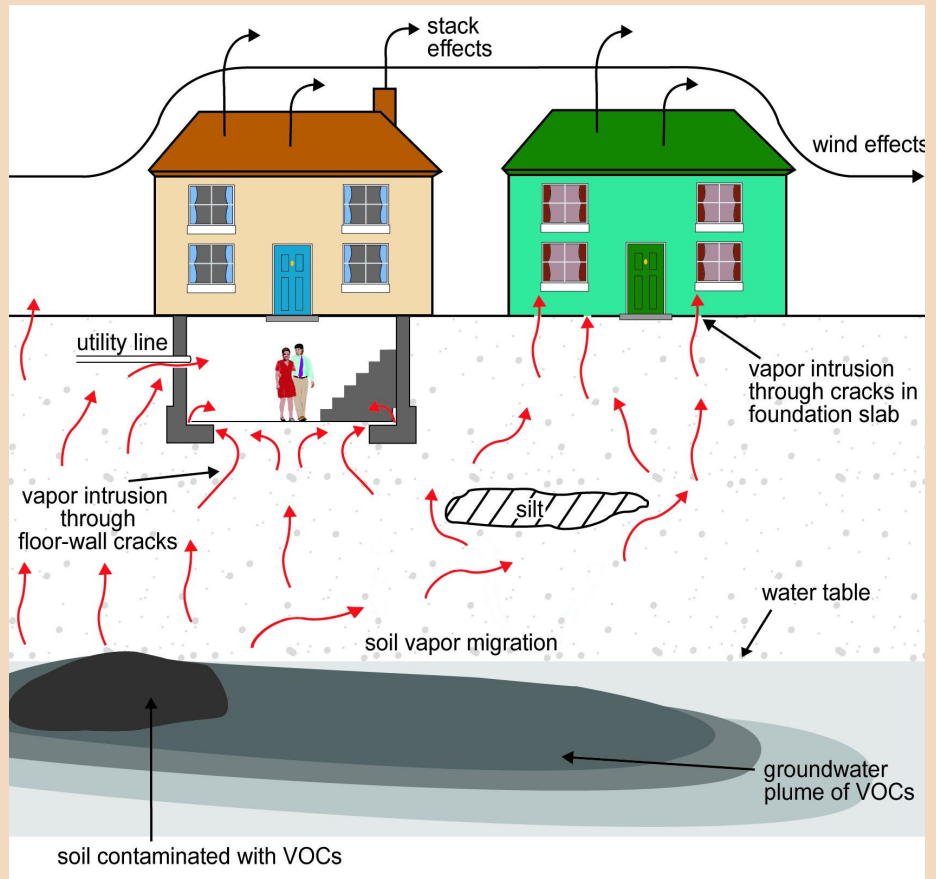
What should I expect if vapor intrusion is suspected near my home or business?

For businesses or other locations where VOC contamination has been found, the DNR requires that the potential for vapor intrusion be investigated. If you live near a site being cleaned up, you may be contacted by the site owner or others working on the cleanup. Your cooperation and consent will be requested before any testing or sampling is conducted on your property. Ask the person contacting you any questions you have about the work being done, or contact the DNR for more information (see DNR contact information on reverse). For more information about testing for vapor intrusion, see DNR-Pub-RR-954, "What to Expect During Vapor Intrusion Sampling."



How Vapors Enter a Building

If you live near a commercial or industrial facility or landfill where VOCs have entered either the soil or groundwater, there may be a potential for those chemicals to travel as vapors into your home or business. Vapors can enter buildings in various ways, including through cracks in the foundation and openings for utility lines. Building ventilation and weather can influence the extent of vapor intrusion.



Adapted from U.S. Environmental Protection Agency (EPA) graphic.
www.epa.gov/oswer/vaporintrusion/basic.html

Where can I find more information?

Health and vapor-related information can be found at the Wisconsin Department of Health Services (DHS) website at dhs.wisconsin.gov, search “Vapor.” For other health-related questions, please contact your local health department: www.dhs.wisconsin.gov/localhealth.

For more DNR information, please visit the DNR’s Remediation and Redevelopment (RR) Program’s Vapor Intrusion page at dnr.wi.gov/topic/Brownfields/Vapor.html.

Additional information can be obtained through the DNR field office in your region. To find the correct office, visit the RR Program Staff Contacts page at dnr.wi.gov/topic/Brownfields/Contact.html or call the RR Program at (608) 266-2111.

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.