

August 10, 2020
File No. 25211374.51

Ms. Cindy Koepke, PG, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources - South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Vapor Monitoring Report – 2019-2020
Laundry Land Cleaners (former), Northgate Shopping Center
1131 N. Sherman Avenue, Madison, Wisconsin
WDNR BRRTS #02-13-552183

Dear Ms. Koepke:

On behalf of Northgate Partnership, SCS Engineers (SCS) is providing the following Vapor Monitoring Report for the Dry Cleaner Environmental Response Fund (DERF) project at the Laundry Land Cleaners site. A report dated July 7, 2020 provides results of soil and groundwater investigations conducted in 2019 and 2020.

1.0 VAPOR SAMPLING & ASSESSMENT

On August 21-22, 2019, SCS conducted vapor testing at:

- 1113 N. Sherman Ave. (Tobacco Outlet)
- 1117 N. Sherman Ave. (Martial Arts)
- 1131 N. Sherman Ave. (Dream Bikes)
- 1133 N. Sherman Ave. (Boomerangs)

The sampling locations are shown on **Figure 1**, and the sampling results are summarized in **Tables 1** and **2**. The laboratory report is included in **Attachment A**. Samples were collected consistent with Wisconsin Department of Natural Resources (WDNR) vapor sampling guidance using 6-liter Summa canisters with 30-minute controllers for sub-slab samples and 8-hour controllers for indoor air samples.

The sampling results from all four locations indicate the presence of trichloroethene (TCE) and/or tetrachloroethene (PCE) in subsurface vapor at concentrations that are greater than the WDNR vapor risk screening levels for small commercial buildings. The chemicals were also detected in an air sample collected in the unoccupied, unused, restricted-access area of the basement below 1117 N. Sherman Ave. (Martial Arts). The concentrations in the air sample were in excess of commercial indoor air vapor action levels.

Additional sub-slab vapor sampling was conducted May 6 – 7 & 21, 2020 at the following locations at Northgate:



- 1137 N. Sherman Ave. (Community Support Network (CSN))
- 1151 N. Sherman Ave., A and B (Community Support Network (CSN))
- 1203 N. Sherman Ave. (Naly's Floral)
- 1205 N. Sherman Ave. (H&R Block)
- 1207 N. Sherman Ave. (Falbo Bros.)
- 1213 N. Sherman Ave. (UPS Store)

Indoor air sampling was conducted at:

- 1219 N. Sherman Ave (FEED Kitchens)

The sampling locations are shown on **Figure 1**, and the sampling results are summarized in **Tables 1** and **2**. The laboratory reports are included in **Attachment A**. Samples were collected consistent with WDNR vapor sampling guidance using 6-liter Summa canisters with 30-minute controllers for sub-slab samples and 8-hour controllers for indoor air samples.

No compounds were detected in the air sample collected at 1219 N. Sherman Ave. (FEED Kitchens). A background air sample was collected concurrently with the indoor air sample; however, the sample was accidentally contaminated at the laboratory so the results were not reported.

All of the May 2020 test results, except for those for 1203 N. Sherman Ave. (Naly's Floral), indicated vapors in the subsurface at concentrations greater than the WDNR screening levels. SCS is proceeding with further evaluation of the vapor distribution and design of mitigation systems as appropriate.

2.0 TESTING OF ADJACENT LOCATIONS BY OTHERS

In March 2019 sub-slab vapor and indoor air testing was conducted at 1113 N. Sherman Ave. (Tobacco Outlet) as part of a Phase 2 Environmental Site Assessment (ESA) conducted for a pending real estate transaction. 1113 N. Sherman Ave. (Tobacco Outlet) and 1111 N. Sherman Ave. (Cash Store) are separate properties and were not owned by the Northgate Partnership. As indicated by a review of City Directories, the Cash Store was a dry cleaners and laundry from about 1963 to 1986 and a potential source of chlorinated volatile organic compound (CVOC) contamination to the subsurface.

The sampling locations are shown on **Figure 1**, and the sampling results are summarized in **Tables 1** and **2**. PCE was detected in a sub-slab vapor sample collected at 1113 N. Sherman Ave. at a concentration that exceeds vapor risk screening levels for small commercial buildings. 1111 N. Sherman Ave. was not sampled for the Phase 2 investigation; however, a sub-slab vapor sample collected in 2012 for the Laundry Land DERF investigation indicated the presence of PCE at a concentration just below the vapor risk screening levels for small commercial buildings.

PCE at a very low concentration was detected in the indoor air sample collected at 1113 N. Sherman Ave. in March 2019 for the Phase 2 ESA.

3.0 DREAM BIKE VAPOR MITIGATION SYSTEM INSTALLATION

The highest concentrations of PCE and TCE were detected in the vapor samples collected below the floor slab of 1131 N. Sherman Ave., the former Laundry Land dry cleaners, currently Dream Bikes.

To address the potential vapor risk, a vapor mitigation system was designed and installed at 1131 N. Sherman Ave. (Dream Bikes) in spring 2020. Because of limited connectivity beneath the slab, vacuum piping for the system was installed in a trench excavated the length of the unit rather than using individual vacuum points for vapor pick-up. The trenching and piping were installed March 14 through 18, 2020. The concrete over the trench was sealed on March 23, 2020. The blower for the system was not immediately available due to the pandemic, but was installed on May 4, 2020. The effectiveness of the system was tested on May 4 through 7, 2020. The test results indicate that the system provides adequate control of sub-slab vapors.

A construction documentation report and a maintenance plan is being prepared for the system.

4.0 TENANT AND OWNER NOTIFICATION

Vapor and air sampling results will be provided to The Alexander Company, Inc., Northside Planning Council (FEED Kitchens), and Northgate Partnership. We assume the property owners will provide the information to affected tenants.

Please contact us at (608) 224-2830 if you have any questions concerning this letter.

Sincerely,



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



Robert E. Langdon
Senior Project Manager
SCS Engineers

BJS/jsn/REL

cc: Paul Roth, Northgate Partnership
Maggie Mackey, 230 Brookdale Lane, Palatine, IL 60067
Nic Alexander, The Alexander Company
Ms. Abha Thakkar, NPC Executive Director (director@northsideplanningcouncil.org)
Northside Planning Council, 1219 N. Sherman Ave., Madison, WI 53704

Attachments: Figure 1 – Vapor Sampling Locations
Table 1 – Sub-Slab Vapor Analytical Results Summary
Table 2 – Indoor Air Analytical Results Summary
Attachment A – Pace Analytical Reports dated:
August 30, 2019
May 15, 2020
May 26, 2020

Tables

- 1 Sub-Slab Vapor Analytical Results Summary
- 2 Indoor Air Analytical Results Summary

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

N. Sherman Ave. (or as noted)	Business as of March 29, 2018	Sample Name	Date	Lab Notes	cis-1,2-DCE	trans-1,2- DCE	PCE	TCE	Vinyl Chloride
1111	Cash Store	Cash Store	8/29/2016	--	<21	<21	510	<21	<21
1113	Tobacco Outlet	1113 South	8/21/2019	--	<0.099	<0.13	<u>1,060</u>	3.5	<0.089
		SS-1	3/4/2019	--	<0.08	<0.10	516.41	0.81	<0.07
		SSB-2	3/12/2019	--	<0.07	<0.10	<u>3,060.7</u>	11.81	<0.07
1117	Martial Arts	1117 South	8/21/2019	--	<0.094	<0.12	<u>5,820</u>	7	<0.085
1131	Dream Bikes	Laundry Land #1	10/10/2012	--	<1,200	<1,200	<u>120,000</u>	<890	<1,900
		Laundry Land #2	10/10/2012	--	<2,000	<2,000	<u>180,000</u>	<1,500	<3,100
		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	Boomerangs #1	10/11/2012	--	<140	<140	<u>10,000</u>	<100	<210
		Boomerangs #2	10/11/2012	--	<3.8	<3.8	370	<2.8	<5.9
		Boomerangs #2 (DUP)	10/11/2012	--	<3.6	<3.6	350	<2.7	<5.6
		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
1151	CSN	Vacant Store 2 #1	10/12/2012	(3)	<0.19	<0.19	64	<0.14	<0.30
		Vacant Store 2 #2	10/12/2012	--	<0.21	<0.21	24	<0.16	<0.33
		1151 A North	5/7/2020	(5)	<0.055	<0.079	<u>2,220</u>	0.71	<0.069
		1151 A South	5/7/2020	(5)	<0.052	<0.077	397	<0.073	<0.065
		1151 B North	5/7/2020	(5)	<0.052	<0.077	<u>1,580</u>	0.22	<0.065
		1151 B South	5/7/2020	(5)	<1.4	<2	<u>18,300</u>	<u>79.1</u>	<1.8
1159	Weaver Auto	Weaver Auto Parts	3/31/2015	--	<43	<43	480	<43	<43
1181	Vacant	Precious Moments	4/21/2015	--	<2.1	<2.1	39	<2.1	<2.1
1137	CSN	Community Support Network #1	10/10/2012	--	<160	<160	<u>16,000</u>	<u>410</u>	<250
		Community Support Network #2	10/10/2012	--	<17	<17	<u>1,500</u>	<13	<27
		1137 North	5/7/2020	(5)	<1.5	<2.2	<u>10,300</u>	49.8	<1.9
		1137 South	5/7/2020	(5)	<1.6	<2.3	<u>13,000</u>	11.1	<2
1201	Northside Restaurant	Northside Restaurant	4/1/2015	--	<43	<43	420	<43	<43
1203	Naly's Floral	Vacant Store 1 #1	10/10/2012	--	<100	<100	<u>7,800</u>	<76	<160
		Vacant Store 1 #2	10/10/2012	--	<39	<39	<u>3,000</u>	<28	<60
		1203 East	5/6/2020	(5)	0.15 J	<0.077	11.4	<0.073	<0.065
		1203 West	5/6/2020	(5)	<0.077	<0.11	75	<0.11	<0.1
1205	H&R Block	H&R Block	4/1/2015	--	<43	<43	<u>3,200</u>	<43	<43
		1205 East	5/21/2020	(5)	<0.05	<0.072	226	0.2	<0.065
		1205 West	5/21/2020	(5)	<1.5	<2.2	<u>9,500</u>	<2.2	<2
1207	Falbo Bros	Falbo Bros	4/1/2015	--	<64	<64	<u>3,100</u>	<64	<64
		1207 West	5/6/2020	(5)	<0.05	<0.072	<u>1,350</u>	0.29	<0.065
1213	UPS Store	UPS Store #1	10/12/2012	--	<13	<13	<u>1,200</u>	13	<21
		UPS Store #2	10/12/2012	(3)	<0.83	<0.83	140	<0.61	<1.3
		1213 East	5/6/2020	(5)	<0.052	<0.077	43.7	<0.073	<0.065
		1213 West	5/6/2020	(5)	<0.052	<0.077	<u>1,390</u>	0.4	<0.065
1293	Smartie Pants	(Kiddos) Front Mail Room	3/1/2013	(4)	<0.28	<0.28	0.33	<0.28	<0.28
		(Kiddos) 4-Year-old Room	3/1/2013	--	<0.28	<0.28	1.0	<0.28	<0.28
		(Kiddos) Back Room (mop closet)	3/1/2013	(4)	<0.28	<0.28	5.5	<0.28	<0.28

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

N. Sherman Ave. (or as noted)	Business as of March 29, 2018	Sample Name	Date	Lab Notes	cis-1,2-DCE	trans-1,2- DCE	PCE	TCE	Vinyl Chloride
1819 Aberg	Dane County Job Center	Dane County Office Bldg	1/28/2016	--	<3.2	<2.7	520	<1.9	<3.8
Vapor Risk Screening Level (Small Commercial Buildings)					NE	NE	900	53	370

Abbreviations:

ppbv = parts per billion by volume

NE = No Established Standard

DUP = Duplicate sample

Notes:

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.
4. March 2019 Tabaco Outlet samples collected by Pioneer Environmental, Inc. Results converted by SCS Engineers from micrograms per cubic meter (ug/m3) to parts per billion by volume (ppbv) using U.S. EPA Indoor Air Unit Conversion calculator (https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html) assuming 20 degrees Celsius and 1 atmosphere pressure.

Laboratory Notes:

J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

(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.

(5) 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.

Created by:	<u>TLC</u>	Date:	<u>10/26/2012</u>
Last Rev by:	<u>AJR</u>	Date:	<u>6/4/2020</u>
Checked by:	<u>JSN</u>	Date:	<u>6/4/2020</u>
Proj Mgr QA/QC:	<u>BJS</u>	Date:	<u>7/6/2020</u>

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

N. Sherman Ave.	Business as of Mar. 29, 2018	Sample Name	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride
1293	Smartie Pants	Kiddo's Day Care #1	10/11/2012	--	<0.20	<0.20	<0.12	<0.15	<0.31
		Kiddo's Day Care #2	10/11/2012	--	<0.16	<0.16	<0.096	<0.12	<0.25
1117	Martial Arts	1117 North Indoor Air (Basement)	8/22/2019	--	<0.084	<0.11	<u>194</u>	<u>1.9</u>	<0.077
1219	FEED Kitchens	1219 North Indoor Air	5/7/2020	(1)	<0.042	<0.062	<0.058	<0.06	<0.054
1113	Tobacco Outlet	IAS-2	3/12/2019	--	<0.08	<0.11	0.86	<0.07	<0.08
		AA-S2	3/12/2019	--	<0.09	<0.11	<0.07	<0.07	<0.08
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

TCE = Trichloroethene

PCE = Tetrachloroethene

Notes:

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.
4. March 2019 Tabaco Outlet samples collected by Pioneer Environmental, Inc. Results converted by SCS Engineers from micrograms per cubic meter (ug/m3) to parts per billion by volume (ppbv) using U.S. EPA Indoor Air Unit Conversion calculator (https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html) assuming 20 degrees Celsius and 1 atmosphere pressure.

Laboratory Notes:

- (1) 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.

Last Rev by: AJR Date: 6/4/2020

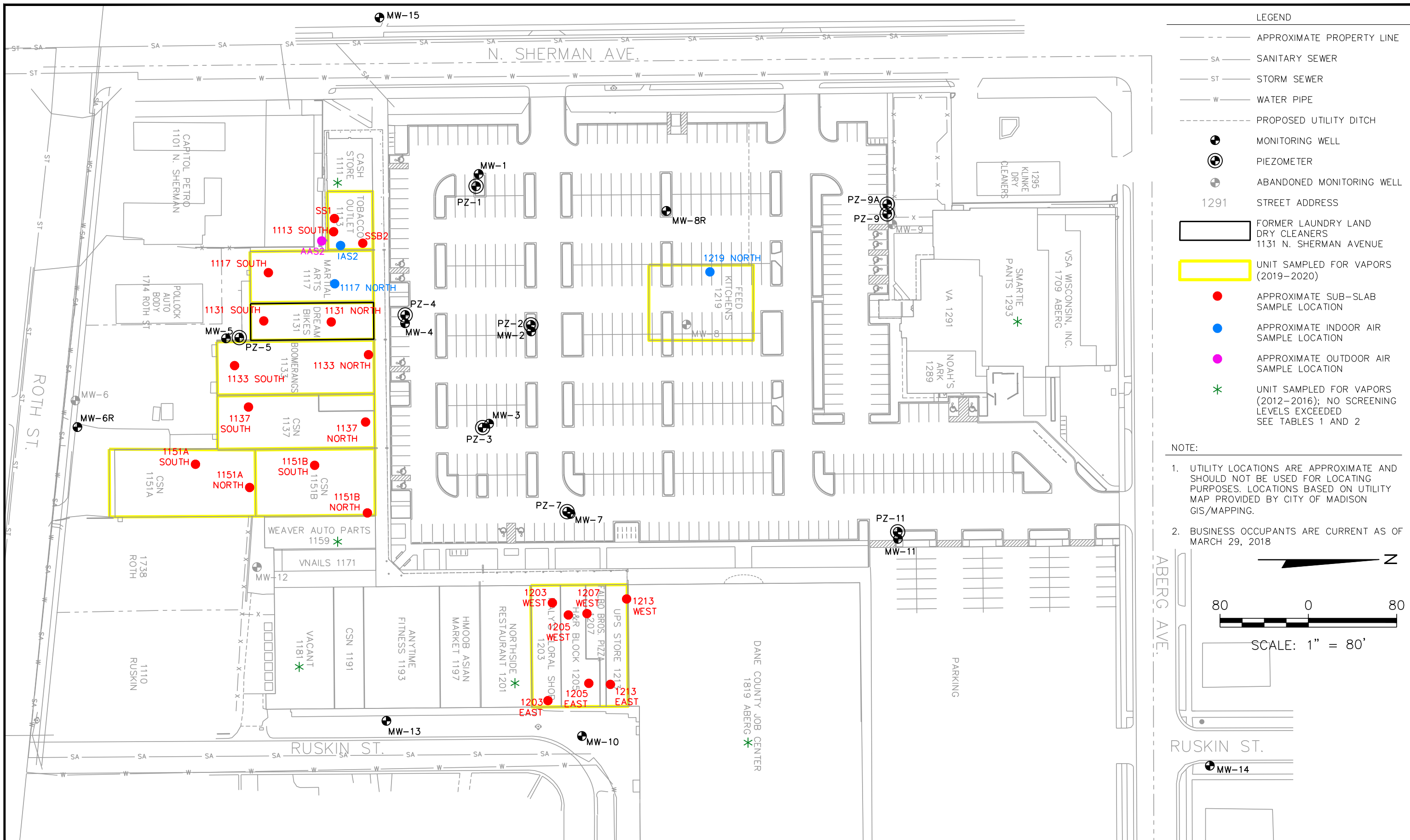
Checked by: JSN Date: 6/4/2020

PM QA/QC: BJS Date: 7/6/2020

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Figure

1 Vapor Sampling Locations

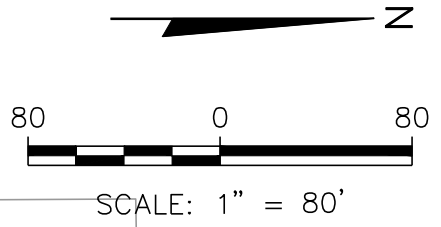


LEGEND

- APPROXIMATE PROPERTY LINE
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER PIPE
- - - - - PROPOSED UTILITY DITCH
- MONITORING WELL
- ⊕ PIEZOMETER
- ⊖ ABANDONED MONITORING WELL
- 1291 STREET ADDRESS
- FORMER LAUNDRY LAND DRY CLEANERS 1131 N. SHERMAN AVENUE
- UNIT SAMPLED FOR VAPORS (2019-2020)
- APPROXIMATE SUB-SLAB SAMPLE LOCATION
- APPROXIMATE INDOOR AIR SAMPLE LOCATION
- APPROXIMATE OUTDOOR AIR SAMPLE LOCATION
- * UNIT SAMPLED FOR VAPORS (2012-2016); NO SCREENING LEVELS EXCEEDED SEE TABLES 1 AND 2

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/LEC	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	VAPOR SAMPLING LOCATIONS	FIGURE
DRAWN:	08/25/2016	CHECKED BY:	BJS					1
REVISED:	06/05/2020	APPROVED BY:						

Attachment A

Pace Analytical Reports

Dated: August 30, 2019

May 15, 2020

May 26, 2020

August 30, 2019

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

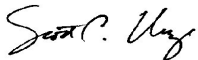
RE: Project: 1133 North
Pace Project No.: 10488801

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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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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)		COMPOSITE START DATE TIME DATE TIME		Canister Pressure (Initial Field - in Hg) Canister Pressure (Final Field - in Hg)		Summa Can Number		Flow Control Number		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)		Face Lab ID				
1	1133 North	GC918/24	8/24	8:44	8/24	9:14	29	6	0794	11169										
2	1133 South	GC04	8/21	9:19	8/21	9:50	28.5	6.5	1468	1202										
3	1117 South	GC53	8/21	10:45	8/21	11:15	27.5	6.5	1506	0795										
4	1117 North Indoor Air	GC02	8/21	11:30	8/21	10:50	27	3.5	2299	1881										
5	1131 North	GC70	8/21	12:00	8/21	12:30	28	5	0797	1821										
6	1131 South	GC12	8/21	12:25	8/21	12:55	28.5	6.5	3486	0681										
7	1113 South	GC31	8/21	13:50	8/21	14:00	27.5	8	0620	0816										
8																				
9																				
10																				
11																				
12																				

WO#: 10488801

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Robert Langdon / SCS	8/21/17	18:00	Wendy Page	8/21/17	11:10	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



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

May 15, 2020

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

RE: Project: 25211374.51 Laundry Land
Pace Project No.: 10517488

Dear Rob Langdon:

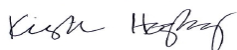
Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10517488001	1207 West	Air	05/06/20 09:20	05/11/20 11:10
10517488002	1213 East	Air	05/06/20 10:30	05/11/20 11:10
10517488003	1213 West	Air	05/06/20 10:44	05/11/20 11:10
10517488004	1203 East	Air	05/06/20 12:20	05/11/20 11:10
10517488005	1203 West	Air	05/06/20 12:45	05/11/20 11:10
10517488006	1151 B North	Air	05/07/20 09:45	05/11/20 11:10
10517488007	1151 B South	Air	05/07/20 10:20	05/11/20 11:10
10517488008	1151 A North	Air	05/07/20 10:55	05/11/20 11:10
10517488009	1151 A South	Air	05/07/20 11:25	05/11/20 11:10
10517488010	1137 North	Air	05/07/20 12:47	05/11/20 11:10
10517488011	1137 South	Air	05/07/20 13:15	05/11/20 11:10
10517488012	1219 North IA	Air	05/07/20 16:20	05/11/20 11:10
10517488013	1219 North OA	Air	05/07/20 16:20	05/11/20 11:10

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SAMPLE ANALYTE COUNT

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10517488001	1207 West	TO-15	MG2	5	PASI-M
10517488002	1213 East	TO-15	MG2	5	PASI-M
10517488003	1213 West	TO-15	MG2	5	PASI-M
10517488004	1203 East	TO-15	MG2	5	PASI-M
10517488005	1203 West	TO-15	MG2	5	PASI-M
10517488006	1151 B North	TO-15	MG2	5	PASI-M
10517488007	1151 B South	TO-15	MG2	5	PASI-M
10517488008	1151 A North	TO-15	MG2	5	PASI-M
10517488009	1151 A South	TO-15	MG2	5	PASI-M
10517488010	1137 North	TO-15	MG2	5	PASI-M
10517488011	1137 South	TO-15	MG2	5	PASI-M
10517488012	1219 North IA	TO-15	MG2	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10517488001	1207 West					
TO-15	Tetrachloroethene	9320	ug/m3	145	05/13/20 14:21	
TO-15	Trichloroethene	1.6	ug/m3	0.96	05/12/20 21:25	
10517488002	1213 East					
TO-15	Tetrachloroethene	301	ug/m3	1.3	05/12/20 19:03	
10517488003	1213 West					
TO-15	Tetrachloroethene	9580	ug/m3	403	05/13/20 13:03	
TO-15	Trichloroethene	2.2	ug/m3	1.0	05/12/20 20:00	
10517488004	1203 East					
TO-15	cis-1,2-Dichloroethene	0.62J	ug/m3	1.5	05/12/20 18:35	
TO-15	Tetrachloroethene	78.4	ug/m3	1.3	05/12/20 18:35	
10517488005	1203 West					
TO-15	Tetrachloroethene	517	ug/m3	1.9	05/12/20 18:06	
10517488006	1151 B North					
TO-15	Tetrachloroethene	10900	ug/m3	403	05/13/20 13:29	
TO-15	Trichloroethene	1.2	ug/m3	1.0	05/12/20 20:28	
10517488007	1151 B South					
TO-15	Tetrachloroethene	126000	ug/m3	4260	05/13/20 15:39	
TO-15	Trichloroethene	432	ug/m3	26.4	05/12/20 23:10	
10517488008	1151 A North					
TO-15	Tetrachloroethene	15300	ug/m3	847	05/13/20 13:55	
TO-15	Trichloroethene	3.9	ug/m3	1.0	05/12/20 20:56	
10517488009	1151 A South					
TO-15	Tetrachloroethene	2740	ug/m3	37.8	05/13/20 12:36	
10517488010	1137 North					
TO-15	Tetrachloroethene	71000	ug/m3	4630	05/13/20 15:13	
TO-15	Trichloroethene	272	ug/m3	28.7	05/12/20 22:44	
10517488011	1137 South					
TO-15	Tetrachloroethene	89600	ug/m3	4840	05/13/20 14:47	
TO-15	Trichloroethene	60.5	ug/m3	30.0	05/12/20 22:17	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Sample: 1207 West									
Lab ID: 10517488001									
Collected: 05/06/20 09:20									
Received: 05/11/20 11:10									
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	<0.20	ug/m3	1.4	0.20	1.75		05/12/20 21:25	156-59-2	
trans-1,2-Dichloroethene	<0.29	ug/m3	1.4	0.29	1.75		05/12/20 21:25	156-60-5	
Tetrachloroethene	9320	ug/m3	145	56.3	210		05/13/20 14:21	127-18-4	
Trichloroethene	1.6	ug/m3	0.96	0.39	1.75		05/12/20 21:25	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.46	0.17	1.75		05/12/20 21:25	75-01-4	

Sample: 1213 East									
Lab ID: 10517488002									
Collected: 05/06/20 10:30									
Received: 05/11/20 11:10									
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	<0.21	ug/m3	1.5	0.21	1.83		05/12/20 19:03	156-59-2	
trans-1,2-Dichloroethene	<0.31	ug/m3	1.5	0.31	1.83		05/12/20 19:03	156-60-5	
Tetrachloroethene	301	ug/m3	1.3	0.49	1.83		05/12/20 19:03	127-18-4	
Trichloroethene	<0.40	ug/m3	1.0	0.40	1.83		05/12/20 19:03	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.48	0.17	1.83		05/12/20 19:03	75-01-4	

Sample: 1213 West									
Lab ID: 10517488003									
Collected: 05/06/20 10:44									
Received: 05/11/20 11:10									
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	<0.21	ug/m3	1.5	0.21	1.83		05/12/20 20:00	156-59-2	
trans-1,2-Dichloroethene	<0.31	ug/m3	1.5	0.31	1.83		05/12/20 20:00	156-60-5	
Tetrachloroethene	9580	ug/m3	403	157	585.6		05/13/20 13:03	127-18-4	
Trichloroethene	2.2	ug/m3	1.0	0.40	1.83		05/12/20 20:00	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.48	0.17	1.83		05/12/20 20:00	75-01-4	

Sample: 1203 East									
Lab ID: 10517488004									
Collected: 05/06/20 12:20									
Received: 05/11/20 11:10									
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	0.62J	ug/m3	1.5	0.21	1.83		05/12/20 18:35	156-59-2	
trans-1,2-Dichloroethene	<0.31	ug/m3	1.5	0.31	1.83		05/12/20 18:35	156-60-5	
Tetrachloroethene	78.4	ug/m3	1.3	0.49	1.83		05/12/20 18:35	127-18-4	
Trichloroethene	<0.40	ug/m3	1.0	0.40	1.83		05/12/20 18:35	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Sample: 1203 East		Lab ID: 10517488004	Collected: 05/06/20 12:20	Received: 05/11/20 11:10	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	<0.17	ug/m3	0.48	0.17	1.83		05/12/20 18:35	75-01-4	

Sample: 1203 West		Lab ID: 10517488005	Collected: 05/06/20 12:45	Received: 05/11/20 11:10	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	<0.31	ug/m3	2.2	0.31	2.69		05/12/20 18:06	156-59-2	
trans-1,2-Dichloroethene	<0.45	ug/m3	2.2	0.45	2.69		05/12/20 18:06	156-60-5	
Tetrachloroethene	517	ug/m3	1.9	0.72	2.69		05/12/20 18:06	127-18-4	
Trichloroethene	<0.59	ug/m3	1.5	0.59	2.69		05/12/20 18:06	79-01-6	
Vinyl chloride	<0.26	ug/m3	0.70	0.26	2.69		05/12/20 18:06	75-01-4	

Sample: 1151 B North		Lab ID: 10517488006	Collected: 05/07/20 09:45	Received: 05/11/20 11:10	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	<0.21	ug/m3	1.5	0.21	1.83		05/12/20 20:28	156-59-2	
trans-1,2-Dichloroethene	<0.31	ug/m3	1.5	0.31	1.83		05/12/20 20:28	156-60-5	
Tetrachloroethene	10900	ug/m3	403	157	585.6		05/13/20 13:29	127-18-4	
Trichloroethene	1.2	ug/m3	1.0	0.40	1.83		05/12/20 20:28	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.48	0.17	1.83		05/12/20 20:28	75-01-4	

Sample: 1151 B South		Lab ID: 10517488007	Collected: 05/07/20 10:20	Received: 05/11/20 11:10	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	<5.6	ug/m3	38.9	5.6	48.3		05/12/20 23:10	156-59-2	
trans-1,2-Dichloroethene	<8.1	ug/m3	38.9	8.1	48.3		05/12/20 23:10	156-60-5	
Tetrachloroethene	126000	ug/m3	4260	1660	6182		05/13/20 15:39	127-18-4	
Trichloroethene	432	ug/m3	26.4	10.7	48.3		05/12/20 23:10	79-01-6	
Vinyl chloride	<4.6	ug/m3	12.6	4.6	48.3		05/12/20 23:10	75-01-4	

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ANALYTICAL RESULTS

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Sample: 1151 A North									
		Lab ID: 10517488008	Collected: 05/07/20 10:55	Received: 05/11/20 11:10	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	<0.22	ug/m3	1.5	0.22	1.92		05/12/20 20:56	156-59-2	
trans-1,2-Dichloroethene	<0.32	ug/m3	1.5	0.32	1.92		05/12/20 20:56	156-60-5	
Tetrachloroethene	15300	ug/m3	847	329	1229		05/13/20 13:55	127-18-4	
Trichloroethene	3.9	ug/m3	1.0	0.42	1.92		05/12/20 20:56	79-01-6	
Vinyl chloride	<0.18	ug/m3	0.50	0.18	1.92		05/12/20 20:56	75-01-4	

Sample: 1151 A South									
		Lab ID: 10517488009	Collected: 05/07/20 11:25	Received: 05/11/20 11:10	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	<0.21	ug/m3	1.5	0.21	1.83		05/12/20 19:32	156-59-2	
trans-1,2-Dichloroethene	<0.31	ug/m3	1.5	0.31	1.83		05/12/20 19:32	156-60-5	
Tetrachloroethene	2740	ug/m3	37.8	14.7	54.9		05/13/20 12:36	127-18-4	
Trichloroethene	<0.40	ug/m3	1.0	0.40	1.83		05/12/20 19:32	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.48	0.17	1.83		05/12/20 19:32	75-01-4	

Sample: 1137 North									
		Lab ID: 10517488010	Collected: 05/07/20 12:47	Received: 05/11/20 11:10	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	<6.1	ug/m3	42.3	6.1	52.5		05/12/20 22:44	156-59-2	
trans-1,2-Dichloroethene	<8.8	ug/m3	42.3	8.8	52.5		05/12/20 22:44	156-60-5	
Tetrachloroethene	71000	ug/m3	4630	1800	6720		05/13/20 15:13	127-18-4	
Trichloroethene	272	ug/m3	28.7	11.6	52.5		05/12/20 22:44	79-01-6	
Vinyl chloride	<5.0	ug/m3	13.6	5.0	52.5		05/12/20 22:44	75-01-4	

Sample: 1137 South									
		Lab ID: 10517488011	Collected: 05/07/20 13:15	Received: 05/11/20 11:10	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	<6.4	ug/m3	44.2	6.4	54.9		05/12/20 22:17	156-59-2	
trans-1,2-Dichloroethene	<9.2	ug/m3	44.2	9.2	54.9		05/12/20 22:17	156-60-5	
Tetrachloroethene	89600	ug/m3	4840	1880	7027		05/13/20 14:47	127-18-4	
Trichloroethene	60.5	ug/m3	30.0	12.1	54.9		05/12/20 22:17	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Sample: 1137 South		Lab ID: 10517488011		Collected: 05/07/20 13:15		Received: 05/11/20 11:10		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	<5.2	ug/m3	14.3	5.2	54.9		05/12/20 22:17	75-01-4	

Sample: 1219 North IA		Lab ID: 10517488012		Collected: 05/07/20 16:20		Received: 05/11/20 11:10		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	<0.17	ug/m3	1.2	0.17	1.49		05/12/20 17:38	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		05/12/20 17:38	156-60-5	
Tetrachloroethene	<0.40	ug/m3	1.0	0.40	1.49		05/12/20 17:38	127-18-4	
Trichloroethene	<0.33	ug/m3	0.81	0.33	1.49		05/12/20 17:38	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.39	0.14	1.49		05/12/20 17:38	75-01-4	

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QUALITY CONTROL DATA

Project: 25211374.51 Laundry Land
Pace Project No.: 10517488

QC Batch: 674831 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10517488001, 10517488002, 10517488003, 10517488004, 10517488005, 10517488006, 10517488007, 10517488008, 10517488009, 10517488010, 10517488011, 10517488012

METHOD BLANK: 3613081 Matrix: Air
Associated Lab Samples: 10517488001, 10517488002, 10517488003, 10517488004, 10517488005, 10517488006, 10517488007, 10517488008, 10517488009, 10517488010, 10517488011, 10517488012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.12	0.81	05/12/20 10:26	
Tetrachloroethene	ug/m3	<0.27	0.69	05/12/20 10:26	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	05/12/20 10:26	
Trichloroethene	ug/m3	<0.22	0.55	05/12/20 10:26	
Vinyl chloride	ug/m3	<0.096	0.26	05/12/20 10:26	

LABORATORY CONTROL SAMPLE: 3613082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	38.5	92	70-132	
Tetrachloroethene	ug/m3	71	58.4	82	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	39.7	94	70-132	
Trichloroethene	ug/m3	56.3	52.1	92	70-132	
Vinyl chloride	ug/m3	26.7	24.9	93	68-141	

SAMPLE DUPLICATE: 3614214

Parameter	Units	10517476037 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.17		25	
Tetrachloroethene	ug/m3	ND	<0.39		25	
trans-1,2-Dichloroethene	ug/m3	ND	0.90J		25	
Trichloroethene	ug/m3	ND	<0.32		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

SAMPLE DUPLICATE: 3614215

Parameter	Units	10517476039 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.17		25	
Tetrachloroethene	ug/m3	ND	<0.40		25	
trans-1,2-Dichloroethene	ug/m3	89.7	83.1	8	25	
Trichloroethene	ug/m3	ND	<0.33		25	
Vinyl chloride	ug/m3	ND	<0.14		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: 25211374.51 Laundry Land

Pace Project No.: 10517488

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25211374.51 Laundry Land

Pace Project No.: 10517488

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10517488001	1207 West	TO-15	674831		
10517488002	1213 East	TO-15	674831		
10517488003	1213 West	TO-15	674831		
10517488004	1203 East	TO-15	674831		
10517488005	1203 West	TO-15	674831		
10517488006	1151 B North	TO-15	674831		
10517488007	1151 B South	TO-15	674831		
10517488008	1151 A North	TO-15	674831		
10517488009	1151 A South	TO-15	674831		
10517488010	1137 North	TO-15	674831		
10517488011	1137 South	TO-15	674831		
10517488012	1219 North IA	TO-15	674831		

REPORT OF LABORATORY ANALYSIS

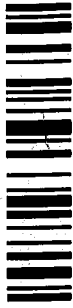
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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information should be included.

WO#: 10517488



10517488

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information: **Section D** Required Client Information

Company: SCS Engineers
 Address: 2830 Dairy Dr.
 Madison, WI 53718
 Email To: klangdon@scsengineers.com
 Phone: 608-217-8945
 Requested Due Date: TBA

Report To: Rob Langdon
 Copy To: SCS Engineers
 Address: 2830 Dairy Dr. Madison, WI
 Pace Quote Reference: 32630
 Pace Project Manager/Sales Rep.
 Pace Profile #: 32630

Project Name: Klangdon Lead
 Project Number: 25211274.51

Location of Sampling by State: WI
 Reporting Units: ug/m³, mg/m³, PPBV, PPMV, Other

Report Level: II, III, IV, Other

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

#	ITEM	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	MEDIA CODE	MEDIA	VOID Media Codes	COLLECTED		Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Face Lab ID
						DATE	TIME					
1		1207 West	BLC07	5/6	850	5/6	920	-28	25	689	24	001
2		1213 East	BLC08	5/6	1000	5/6	1030	-30	-5	258	23	002
3		1213 West	BLC09	5/6	104	5/6	1044	-28	-2	414	23	003
4		1203 East	BLC10	5/6	1150	5/6	1220	-29	-6	1635	22	004
5		1203 West	BLC11	5/6	1245	5/6	1245	-30	-7	2309	25	005
6		1151 B North	BLC12	5/7	915	5/7	945	-30	-8	299	23	006
7		1151 B South	BLC13	5/7	950	5/7	1020	-28	-5	3564	25	007
8		1151 A North	BLC14	5/7	1025	5/7	1055	-28	-8	01003	23	008
9		1151 A South	BLC15	5/7	1655	5/7	1125	-30	-10	513	23	009
10		1137 North	BLC16	5/7	1217	5/7	1247	-30	-8	504	22	010
11		1137 South	BLC17	5/7	1245	5/7	1315	-28	-8	2987	24	011

RELIQUISHED BY / AFFILIATION **DATE** **TIME** **ACCEPTED BY / AFFILIATION** **DATE** **TIME** **SAMPLE CONDITIONS**

Robert Langdon / SCS 5/6/06 5:00 pm Rob Langdon / SCS 5-11-20 1110

Comments: * Analyze for PCB, TCE, cis 1,2 DCE, Trans 1,2 DCE, and Vinyl chloride

SAMPLER NAME AND SIGNATURE: Robert Langdon
 PRINT Name of SAMPLER: Robert Langdon
 SIGNATURE OF SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 5/8/20

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

ORIGINAL

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Patrolabs.com

Page: 2 of 2				
45163				
Section A Client Information: Company: SCS Engineers Address: 2830 Dairy Dr, Madison, WI Phone: 608.203.9697 Email: madison@scsengineers.com Requested Due Date (AET):	Section B Required Project Information: Report To: Robert Langford Copy To: SCS Purchase Order No.: Project Name: Cleaving Land Project Number: 5211374-51 Requested Due Date (AET):	Section C Invoice Information: Attention: Robert Langford Company Name: SCS Engineers Address: 2830 Dairy Dr, Madison, WI Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #: 32630	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input checked="" type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> RCRA <input type="checkbox"/> Other Reporting Units mg/m ³ <input type="checkbox"/> PPBV <input checked="" type="checkbox"/> Other: WS Location of Sampling by State: WI Report Level: I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other:	
*Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE PID Reading (Client only) MEDIA CODE DATE TIME DATE TIME COMPOSITE START COMPOSITE END/GRAB Canister Pressure (Initial Field - In Hg) Canister Pressure (Final Field - In Hg) Summa Can Number Flow Control Number		
ITEM #	Valid Media Codes MEDIA CODE TB Tedlar Bag 1 Liter Summa Can 6 Liter Summa Can LVP Low Volume Puff High Volume Puff RVP PM10 Other	1 1219 North IA 2 1219 North OA	1 5/7 830 5/7 830 5/7 1620-30 5/7 1620-30 02 02 16360119 2402251	Method: PM10 3C - Fixed Gas (%) TO-15 Full List VOCs TO-14 TO-15 Short List VOCs TO-15 Short List Chlorinated TO-15 Short List (Other) Pace Lab ID 012 013
Comments: Analyze for PCE, TCE, cis 1,2 DCE, Trans 1,2 DCE and Vinyl chloride		RELINQUISHED BY / AFFILIATION Robert Langford DATE 5/8 TIME 500 PM	ACCEPTED BY / AFFILIATION Robert Langford DATE 5-11-20 TIME 1110	SAMPLE CONDITIONS Received on Ice Custody Sealed Cooler Samples Intact Temp in °C
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY) 5/8/2020		Temp in °C

ORIGINAL



Air Sample Condition Upon Receipt

Client Name: SCS Eng.

Project #:

WO#: 10517488

PM: KNH

Due Date: 05/18/20

CLIENT: SCS Engineer

Courier: [x] Fed Ex [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial See Exception

Tracking Number: 1723 2542 7885 / 3874 / 3863 / 3896

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

Packing Material: [] Bubble Wrap [] Bubble Bags [x] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [x] 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: 5-11-20 AA

Type of ice Received [] Blue [] Wet [x] None

Comments:

Table with 13 rows of custody and inspection questions, including Chain of Custody Present, Samples Arrived within Hold Time, and Containers Intact.

Gauge # [] 10AIR26 [x] 10AIR34 [] 10AIR35 [] 4097

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for multiple samples.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Kirsten Hojberg

Date: 5/12/2020



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: 10517488
 Project Name: 25211374.51 Laundry Land

Lab Sample No: 10517488004
 Client Sample ID: 1203 East

ProjSampleNum: 10517488004
 Matrix: Air

Date Collected: 05/06/20 12:20
 Date Received: 05/11/20 11:10

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	0.15J	ppbv	0.37	1.83	05/12/20 18:35 MG2	156-59-2	
Tetrachloroethene	11.4	ppbv	0.19	1.83	05/12/20 18:35 MG2	127-18-4	
trans-1,2-Dichloroethene	<0.077	ppbv	0.37	1.83	05/12/20 18:35 MG2	156-60-5	
Trichloroethene	<0.073	ppbv	0.18	1.83	05/12/20 18:35 MG2	79-01-6	
Vinyl chloride	<0.065	ppbv	0.18	1.83	05/12/20 18:35 MG2	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, 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: 10517488
Project Name: 25211374.51 Laundry Land

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT Units Conversion Request

May 26, 2020

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

RE: Project: 25211374.51 Laundry Land
Pace Project No.: 10518943

Dear Rob Langdon:

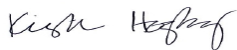
Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25211374.51 Laundry Land
Pace Project No.: 10518943

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25211374.51 Laundry Land
Pace Project No.: 10518943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10518943001	1205 East	Air	05/21/20 09:25	05/22/20 09:40
10518943002	1205 West	Air	05/21/20 10:01	05/22/20 09:40
10518943003	Unused Can#0719	Air	05/21/20 00:00	05/22/20 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25211374.51 Laundry Land
Pace Project No.: 10518943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10518943001	1205 East	TO-15	CH1	5	PASI-M
10518943002	1205 West	TO-15	CH1	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 25211374.51 Laundry Land

Pace Project No.: 10518943

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10518943001	1205 East					
TO-15	Tetrachloroethene	1560	ug/m3	36.2	05/24/20 01:02	
TO-15	Trichloroethene	1.1	ug/m3	0.96	05/24/20 00:36	
10518943002	1205 West					
TO-15	Tetrachloroethene	65500	ug/m3	1180	05/24/20 12:39	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25211374.51 Laundry Land
Pace Project No.: 10518943

Sample: 1205 East **Lab ID: 10518943001** Collected: 05/21/20 09:25 Received: 05/22/20 09:40 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	<0.20	ug/m3	1.4	0.20	1.75		05/24/20 00:36	156-59-2	
trans-1,2-Dichloroethene	<0.29	ug/m3	1.4	0.29	1.75		05/24/20 00:36	156-60-5	
Tetrachloroethene	1560	ug/m3	36.2	14.1	52.5		05/24/20 01:02	127-18-4	
Trichloroethene	1.1	ug/m3	0.96	0.39	1.75		05/24/20 00:36	79-01-6	
Vinyl chloride	<0.17	ug/m3	0.46	0.17	1.75		05/24/20 00:36	75-01-4	

Sample: 1205 West **Lab ID: 10518943002** Collected: 05/21/20 10:01 Received: 05/22/20 09:40 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	<6.2	ug/m3	43.3	6.2	53.7		05/24/20 01:28	156-59-2	
trans-1,2-Dichloroethene	<9.0	ug/m3	43.3	9.0	53.7		05/24/20 01:28	156-60-5	
Tetrachloroethene	65500	ug/m3	1180	460	1718		05/24/20 12:39	127-18-4	
Trichloroethene	<11.9	ug/m3	29.3	11.9	53.7		05/24/20 01:28	79-01-6	
Vinyl chloride	<5.1	ug/m3	14.0	5.1	53.7		05/24/20 01:28	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25211374.51 Laundry Land

Pace Project No.: 10518943

QC Batch: 677113

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10518943001, 10518943002

METHOD BLANK: 3625003

Matrix: Air

Associated Lab Samples: 10518943001, 10518943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.058	0.40	05/23/20 11:28	
Tetrachloroethene	ug/m3	<0.13	0.34	05/23/20 11:28	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	05/23/20 11:28	
Trichloroethene	ug/m3	<0.11	0.27	05/23/20 11:28	
Vinyl chloride	ug/m3	<0.048	0.13	05/23/20 11:28	

LABORATORY CONTROL SAMPLE: 3625004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	45.4	109	70-132	
Tetrachloroethene	ug/m3	71	79.9	112	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	47.6	113	70-132	
Trichloroethene	ug/m3	56.3	63.2	112	70-132	
Vinyl chloride	ug/m3	26.7	28.2	106	68-141	

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: 25211374.51 Laundry Land

Pace Project No.: 10518943

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25211374.51 Laundry Land

Pace Project No.: 10518943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10518943001	1205 East	TO-15	677113		
10518943002	1205 West	TO-15	677113		

REPORT OF LABORATORY ANALYSIS

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WO#: 10518943



10518943

AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information should be included.



Pace Analytical
www.pacelabs.com

Section A Required Client Information: Company: <u>SES Engineers</u> Address: <u>2830 Dairy Dr</u> <u>Madison, WI</u> Email To: <u>rlangdon@sesengineers.com</u> Phone: <u>60822-395</u> Requested Due Date/TAT: <u>Standard</u>		Section B Required Project Information: Report To: <u>Robert Langdon SES</u> Copy To: <u>-</u> Purchase Order No.: <u>-</u> Project Name: <u>Laundry Land</u> Project Number: <u>151134-51</u>		Section C Invoice Information: Attention: <u>Robert Langdon</u> Company Name: <u>SES Engineers</u> Address: <u>2830 Dairy Dr Madison WI</u> <u>5318</u> Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #: <u>32030</u>		Page: <u>1</u> of <u>1</u> 39831	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE Valid Media Codes: TB Todor Bag 1 Liter Summa Can - LC 6 Liter Summa Can - 6C Low Volume Puff - LVP High Volume Puff - HVP Other - PM10		PID Reading (Client Only) MEDIA CODE DATE TIME COMPOSITE START DATE TIME COMPOSITE END/GRAB DATE TIME		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)	
1205 East 1205 West Unused Can		6/15/19 7:21:20 855 5/19/19 9:25:26 4 6/15/19 7:21:20 855 5/19/19 9:25:26 4 6/15/19 7:21:20 855 5/19/19 9:25:26 4		Initial Field - In Hg Canister Pressure Final Field - In Hg Canister Pressure		Flow Control Number Summa Can Number	
# ITEM 1 2 3 4 5 6 7 8 9 10 11 12		RELINQUISHED BY / AFFILIATION Robert Langdon / SES DATE 5/19/20 TIME 15:00		ACCEPTED BY / AFFILIATION Robert Langdon / SES DATE 5/22/20 TIME 9:40		SAMPLE CONDITIONS Temp in °C Received on Ice Custody Sealed Cooler Samples Intact	
Comments: * Analyze for PCBs, TCE, Cis 1,2 DCE, Trans 1,2 DCE, and Vinyl chloride		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Robert Langdon SIGNATURE of SAMPLER: [Signature]		DATE Sampled (MM/DD/YY) 5/19/2020		DATE 5/22/20 TIME 9:40	

ORIGINAL



Document Name: Air Sample Condition Upon Receipt

Document Revised: 19Nov2019 Page 1 of 1

Document No.: F-MN-A-106-rev.20

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: SCS ENGINEERS

Project #:

WO#: 10518943

PM: KNH

Due Date: 06/01/20

CLIENT: SCS Engineer

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial See Exception

Tracking Number: 1723 2542 5947

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

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [X] 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: 5.22.20 CMY

Type of ice Received [] Blue [] Wet [X] None

Comments:

Table with 13 rows of custody and inspection questions, including Chain of Custody Present, Samples Arrived within Hold Time, and Containers Intact.

Gauge # [X] 10AIR26 [] 10AIR34 [] 10AIR35 [] 4097

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure, Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Joanne Richardson

Date: 5-22-20