

Paul Lindquist

From: Paul Lindquist
Sent: Wednesday, February 2, 2022 2:04 PM
To: john.moll@wisconsin.gov
Cc: Smullen, Joel; Jeanne Tarvin; Susan Petrofske
Subject: NR 716.14 Results Notification: BRRTS: 02-41-580746 (AHPRC)
Attachments: 02-41-580746 (AHPRC) NR 716.14 Data Transmittal (2022_02_02).pdf

Good afternoon Greg;

Attached for your review are the analytical results for vapor samples collected on January 12, 2022 from the passive sub-slab ventilation system installed beneath the Marquette University (Marquette) Athletic and Human Performance Research Center (AHPRC) building (BRRTS #02-41-580746). As documented in the *Construction Documentation and Post-Construction Monitoring Report* submitted to the Wisconsin Department of Natural Resources (WDNR) on February 26, 2021, the passive sub-slab ventilation system (the "system") is comprised of a vapor barrier and two separate piping networks installed under the northern concrete slab on-grade and southern basement concrete slab as shown on the attached Figure. The piping networks are conveyed through the building via riser pipes and vented to the atmosphere through the roof where each pipe is equipped with a wind driven turbine ventilator. Vapor samples were collected from each network (North and South) to assess sub-slab vapor conditions and to confirm that there is not a risk for vapor intrusion. The North sample was collected from the riser pipe on the ground floor within an accessible drop-ceiling. The riser pipe associated with the southern system network was not accessible within the AHPRC building. As a result, the South sample was collected from the roof-top riser pipe.

Based on previously collected soil, groundwater, and soil vapor sample results, the vapor samples were analyzed for benzene, naphthalene, tetrachloroethene, trichloroethene, and toluene. The results from the previously completed August 2021 and the January 2022 sampling events are presented on the attached table. All detected concentrations were well below their applicable WDNR vapor risk screening levels (VRSL) for sub-slab vapor in all exposure scenarios (residential, small commercial, industrial/large commercial).

Based on the Summer 2021 and Winter 2022 vapor sampling results, no additional vapor sampling is proposed at this time. The vapor sampling results will be formally documented in a forthcoming *Post Construction Site Investigation Report/Remedial Action Options Evaluation*.

Please do not hesitate to contact me with any questions. A copy of this NR 716.14 data transmittal will be uploaded to the WDNR submittal portal.

Paul Lindquist

Managing Consultant
1692722 - Great Lakes

D 262-901-3510
M 612-209-8676
plindquist@ramboll.com

Connect with us  

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA
<https://ramboll.com>

**TABLE 1. PASSIVE SUB-SLAB VENTILATION
VAPOR ANALYTICAL RESULTS**
733 N 12TH ST
(FORMERLY 1201-1221 W WELLS ST)
MILWAUKEE, WISCONSIN
RAMBOLL PROJECT NO. 1690005255-001

Parameters		Residential		Small Commercial		Large Commercial / Industrial		North (Sub-Slab)		South (Sub-Slab)	
Analyte ($\mu\text{g}/\text{m}^3$)	CAS No.	Indoor Air VAL ⁽¹⁾	Sub-Slab Vapor VRSL ⁽¹⁾	Indoor Air VAL ⁽¹⁾	Sub-Slab Vapor VRSL ⁽¹⁾	Indoor Air VAL ⁽¹⁾	Sub-Slab Vapor VRSL ⁽¹⁾	8/17/2021	1/12/2022	8/17/2021	1/12/2022
Benzene	71-43-2	3.6	120	16	520	16	1,600	0.75	0.62 J	1.1	0.27 J
Naphthalene	91-20-3	0.83	28	3.6	120	3.6	360	<4.4	<4.3	<4.4	<3.9
Tetrachloroethylene	127-18-4	42	1,400	180	5,800	180	18,000	<0.59	<0.58	6.5	0.80 J
Toluene	108-88-3	5,200	170,000	22,000	730,000	22,000	2,200,000	4.0	1.6	2.7	0.91 J
Trichloroethylene	79-01-6	2.1	70	8.8	290	8.8	880	4.7	<0.39	2.0	<0.35

Notes:

Standards based on November 2021 USEPA Regional Screening Level (RSL) Tables.

Samples analyzed using USEPA Method TO-15. Only the 5 VOC shown were analyzed and reported based on historic results.

$\mu\text{g}/\text{m}^3$ = Microgram per cubic meter

VAL= Indoor Air Vapor Action Level

VRSL = Vapor Risk Screening Level

⁽¹⁾ Indoor Air VALs and Sub-Slab Vapor VRSLs are based on an USEPA risk level of 1 in 100,000 or a Hazard Index of 1, whichever is more stringent.

A = Exceeds Residential VRSL

B = Exceeds Small Commercial VRSL

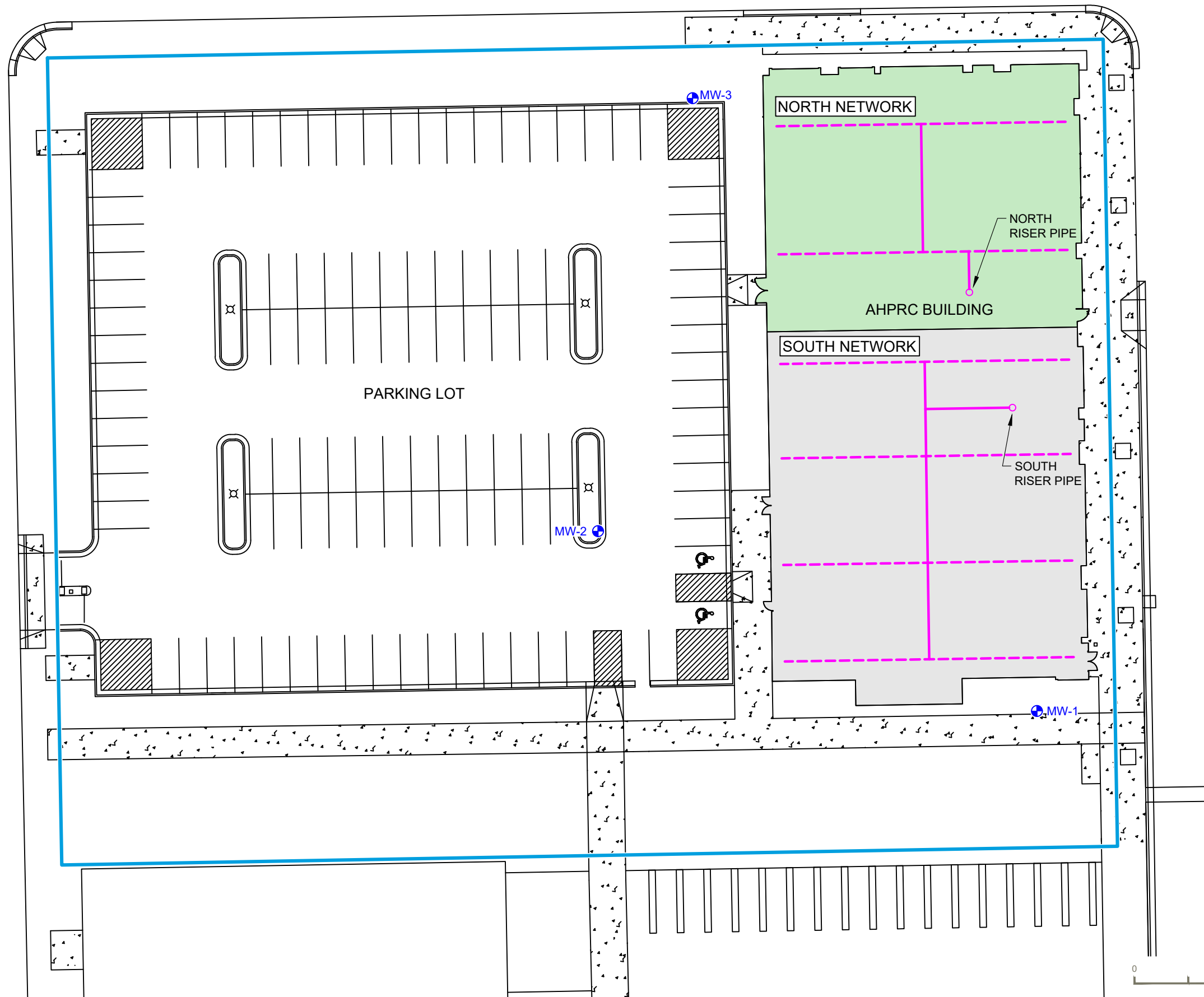
C = Exceeds Large Commercial/Industrial VRSL

L:\Loop Project Files\CAD\1690005255-001_Marquette University\Acad\2021-09\06_Sub-Slab Ventilation System_Layout.dwg
 PROJECT: 1690005255-001 DATED: 9/9/2021 DESIGNER: HJW

N. 13TH STREET

W. WELLS STREET

N. 12TH STREET



- PROPERTY BOUNDARY (APPROXIMATE)
- MONITORING WELL
- CONCRETE SLAB ON-GRADE
- BASEMENT CONCRETE SLAB
- PASSIVE VENTILATION SYSTEM SOLID PIPE
- - - PASSIVE VENTILATION SYSTEM SLOTTED PIPE
- VERTICAL RISER PIPE

- NOTES**
1. ALL INTERIOR FEATURES ARE APPROXIMATE.
 2. PASSIVE SUB-SLAB VENTILATION SYSTEM PIPING LAYOUT PROVIDED BY GRAEF-USA AND ARE APPROXIMATE.
 3. NORTH VAPOR SAMPLE COLLECTED FROM THE GROUND LEVEL RISER PIPE ACCESS IN DROP-CEILING.
 4. SOUTH VAPOR SAMPLE COLLECTED FROM ROOF TOP RISER PIPE.

PASSIVE SUB-SLAB VENTILATION SYSTEM LAYOUT AND VAPOR SAMPLE LOCATIONS

AHPRC
 MARQUETTE UNIVERSITY
 733 N 12TH STREET
 (FORMERLY 1201-1221 W WELLS STREET)
 MILWAUKEE, WISCONSIN

DRAFT

FIGURE 6

RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



January 27, 2022

Paul Lindquist
Ramboll US Consulting, Inc.
234 West Florida St.
5th floor
Milwaukee, WI 53204

RE: Project: 1690005255 AHPRC
Pace Project No.: 10594710

Dear Paul Lindquist:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2022. 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,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Susan Petrofske, Ramboll US Consulting, Inc.
Donna Volk, Ramboll US Consulting, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1690005255 AHPRC

Pace Project No.: 10594710

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

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SAMPLE SUMMARY

Project: 1690005255 AHPRC
Pace Project No.: 10594710

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10594710001	NORTH	Air	01/12/22 10:35	01/18/22 10:28
10594710002	SOUTH	Air	01/12/22 10:55	01/18/22 10:28
10594710003	NORTH CERT#2247	Air		01/18/22 10:28
10594710004	SOUTH CERT#3218	Air		01/18/22 10:28

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SAMPLE ANALYTE COUNT

Project: 1690005255 AHPRC
Pace Project No.: 10594710

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10594710001	NORTH	TO-15	MJL	5
10594710002	SOUTH	TO-15	MJL	5
10594710003	NORTH CERT#2247	TO-15	MJL	5
10594710004	SOUTH CERT#3218	TO-15	MJL	5

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: 1690005255 AHPRC

Pace Project No.: 10594710

Method: TO-15

Description: TO15 MSV AIR

Client: Ramboll Environ- WI

Date: January 27, 2022

General Information:

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1690005255 AHPRC

Pace Project No.: 10594710

Method: TO-15

Description: Individual Can Certification

Client: Ramboll Environ- WI

Date: January 27, 2022

General Information:

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10594710

Sample: NORTH **Lab ID: 10594710001** Collected: 01/12/22 10:35 Received: 01/18/22 10:28 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	0.62J	ug/m3	0.64	0.23	1.98		01/25/22 14:50	71-43-2	
Naphthalene	<4.3	ug/m3	5.3	4.3	1.98		01/25/22 14:50	91-20-3	
Tetrachloroethene	<0.58	ug/m3	1.4	0.58	1.98		01/25/22 14:50	127-18-4	
Toluene	1.6	ug/m3	1.5	0.48	1.98		01/25/22 14:50	108-88-3	
Trichloroethene	<0.39	ug/m3	1.1	0.39	1.98		01/25/22 14:50	79-01-6	

Sample: SOUTH **Lab ID: 10594710002** Collected: 01/12/22 10:55 Received: 01/18/22 10:28 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	0.27J	ug/m3	0.58	0.21	1.8		01/25/22 16:03	71-43-2	
Naphthalene	<3.9	ug/m3	4.8	3.9	1.8		01/25/22 16:03	91-20-3	
Tetrachloroethene	0.80J	ug/m3	1.2	0.53	1.8		01/25/22 16:03	127-18-4	
Toluene	0.91J	ug/m3	1.4	0.44	1.8		01/25/22 16:03	108-88-3	
Trichloroethene	<0.35	ug/m3	0.98	0.35	1.8		01/25/22 16:03	79-01-6	

Sample: NORTH CERT#2247 **Lab ID: 10594710003** Collected: Received: 01/18/22 10:28 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		01/07/22 10:10	71-43-2	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		01/07/22 10:10	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		01/07/22 10:10	127-18-4	
Toluene	<0.24	ug/m3	0.77	0.24	1		01/07/22 10:10	108-88-3	
Trichloroethene	<0.20	ug/m3	0.55	0.20	1		01/07/22 10:10	79-01-6	

Sample: SOUTH CERT#3218 **Lab ID: 10594710004** Collected: Received: 01/18/22 10:28 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		01/07/22 10:38	71-43-2	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		01/07/22 10:38	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		01/07/22 10:38	127-18-4	
Toluene	<0.24	ug/m3	0.77	0.24	1		01/07/22 10:38	108-88-3	

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10594710

Sample: SOUTH CERT#3218 **Lab ID: 10594710004** Collected: Received: 01/18/22 10:28 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Trichloroethene	<0.20	ug/m3	0.55	0.20	1		01/07/22 10:38	79-01-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005255 AHPRC

Pace Project No.: 10594710

QC Batch: 795198

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10594710001, 10594710002

METHOD BLANK: 4229068

Matrix: Air

Associated Lab Samples: 10594710001, 10594710002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/m3	<0.11	0.32	01/25/22 10:12	
Naphthalene	ug/m3	<2.2	2.7	01/25/22 10:12	
Tetrachloroethene	ug/m3	<0.29	0.69	01/25/22 10:12	
Toluene	ug/m3	<0.24	0.77	01/25/22 10:12	
Trichloroethene	ug/m3	<0.20	0.55	01/25/22 10:12	

LABORATORY CONTROL SAMPLE: 4229069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	34.8	44.4	127	70-130	
Naphthalene	ug/m3	65.2	70.8	108	70-130	
Tetrachloroethene	ug/m3	73.4	77.3	105	70-134	
Toluene	ug/m3	41.6	48.7	117	70-136	
Trichloroethene	ug/m3	58.4	66.1	113	70-134	

SAMPLE DUPLICATE: 4229813

Parameter	Units	10594710001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/m3	0.62J	0.58J		25	
Naphthalene	ug/m3	<4.3	<4.3		25	
Tetrachloroethene	ug/m3	<0.58	<0.58		25	
Toluene	ug/m3	1.6	1.6	0	25	
Trichloroethene	ug/m3	<0.39	<0.39		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: 1690005255 AHPRC

Pace Project No.: 10594710

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690005255 AHPRC
Pace Project No.: 10594710

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10594710001	NORTH	TO-15	795198		
10594710002	SOUTH	TO-15	795198		
10594710003	NORTH CERT#2247	TO-15	795089		
10594710004	SOUTH CERT#3218	TO-15	795089		

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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.

55806

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Program
Company: RAMBOLL	Report To: PAUL LINDQUIST	Attention: RAMBOLL	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act
Address: 234 W FLORIDA ST MILWAUKEE WI 53401	Copy To: SUSAN PETROFSKE	Company Name:	<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Email To: PLINDQUIST@RAMBOLL.COM	Purchase Order No.:	Address:	Location of Sampling by State: WI
Phone: 612.209.8676	Project Name: AHPRC	Pace Quote Reference: ..	Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/>
Requested Due Date/TAT: STANDARD	Project Number: 1690005255	Pace Project Manager/Sales Rep. CAROLYNNE TROUT	Report Level: II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/>
		Pace Profile #: 40343	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10 3C - Fixed Gas (%) TO-3 BTEX TO-15M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated	Pace Lab ID
					COMPOSITE START		COMPOSITE - END/GRAB							
					DATE	TIME	DATE	TIME						
1	NORTH		1LC		1/12/22		1035	28	5	2247	1292		X	001 003
2	SOUTH		1LC		1/12/22		1055	30	5	3218	1327		X	002 004
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<i>Paul Lindquist</i>	1/13/22	1200	<i>FEDEX</i>	1-18-22	10:28	-	Y/N	Y/N	Y/N	Y/N
				<i>Matt J. Pace</i>				Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **PAUL LINDQUIST** 01/13/2022
 SIGNATURE of SAMPLER: *Paul Lindquist* DATE Signed (MM/DD/YY)

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

WO#: 10594710



10594710

