State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
CALUMET VILLAGE			02-08-585360
Address	**City**	**State**	**ZIP Code**
1717 E. CALUMET STREET	APPLETON	WI	54915

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

BRIDGEVIEW ASSOCIATES LLP

Address	City	State	ZIP Code
3305 N BALLARD ROAD SUITE C	APPLETON	WI	54911

Contact Person	Phone Number (include area code)
STEVE WINTER	(920) 733-3214

Person or company that collected samples

UNITED ENGINEERING CONSULTANTS, INC.

Sample Results (Results Attached)

Reason for Sampling: ◉ Routine ○ Other (define) _____

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	○	○	○
Diesel or Fuel Oil	○	○	○	○
Solvents	○	○	○	○
Heavy Metals	○	○	○	○
Pesticides	○	○	○	○
Other: _____	○	○	○	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	○
Sub-slab	○	◉
Exterior Soil Gas	○	○

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
UNITED ENGINEERING CONSULTANTS	ANDERSON	NICHOLAS

Address	City	State	ZIP Code
2938 S. 166TH STREET	NEW BERLIN	WI	53151

Phone # (inc. area code)	Email
(262) 785-1447	NAUEC@SBCGLOBAL.NET

Select which agency: (•) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
CAMPOLI	KAREN	(920) 510-4349

Address	City	State	ZIP Code
2984 SHAWANO AVENUE	GREEN BAY	WI	54313

Email
KAREN.CAMPOLI@WISCONSIN.GOV

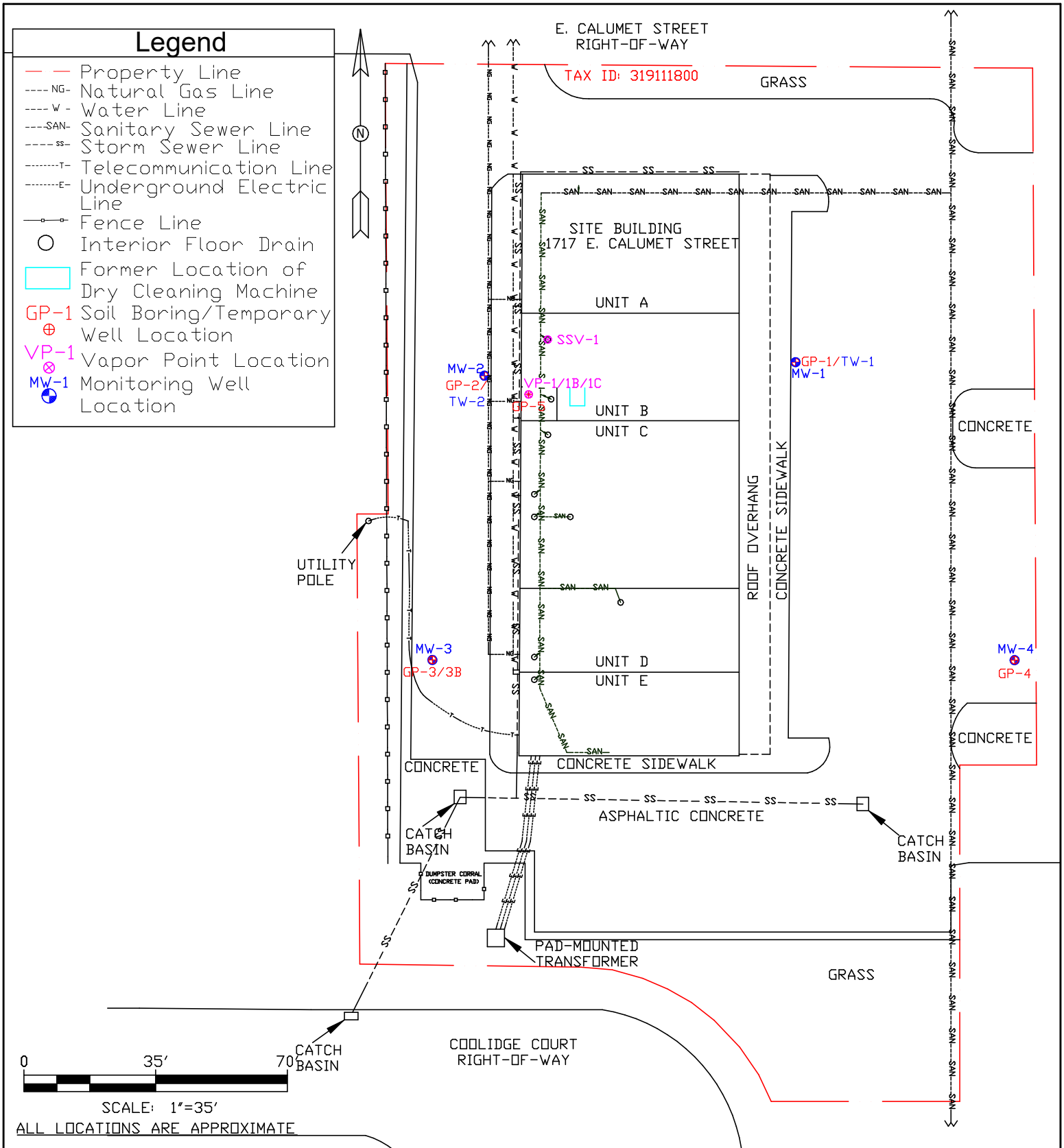

Figure 3: Soil Boring, Monitoring Well and Sub-Slab Vapor Point Location Map

United Engineering Consultants, Inc.

2938 S. 166th Street
New Berlin, WI 53151

Tel. (262) 785-1447
Fax (262) 706-4400

#19044

DRAWN BY: KRH

DATE: 10/21/2020

Site Investigation Report
Calumet Village
1717 E. Calumet Street
Appleton, WI 54915

Table 3 - VOC Analytical Results - Vapor
Calumet Village
1717 E. Calumet Street
Appleton, WI 54915

Sample Identification	VP-1	VP-1R	VP-1C	Residential	Small Commercial
Sample Type	SS	SS	SS	Sub-Slab VRSL	Sub-Slab VRSL
Sample Date	11/21/2019	7/8/2020	7/20/2021		
Sample Duration (Hours)	0.5	0.5	0.5		
Volatile Organic Compounds (VOC) (Method: TO-15)					
Acetone	176	99.6	207	1066667	4666667
Benzene	0.71	0.7	0.46J	120	530
Benzyl Chloride	<2.1	<0.46	<1.6	19	83
Bromodichloromethane	<0.66	<0.37	<0.43	25	110
Bromoform	<2.5	<2.0	<3.0	867	3667
Bromomethane	<0.41	<0.25	<0.27	17	733
1,3-Butadiene	<0.23	<0.14	<0.22	31	137
2-Butanone	5.3J	5.1	18.2	173333	733333
Carbon Disulfide	<0.39	1	0.26J	24333	103333
Carbon tetrachloride	<0.77	0.30J	<0.51	160	670
Chlorobenzene	<0.49	<0.21	<0.28	1733	7333
Chloroethane	<0.47	<0.18	<0.41	-	-
Chloroform	<0.35	<0.27	2.9	40	180
Chloromethane	<0.28	<0.13	1.1	3100	13000
Cyclohexane	1.3J	2.3J	4.1	210000	866667
Dibromochloromethane	<1.3	<0.42	<0.94	-	-
1,2-Dibromoethane	<0.66	<0.46	<0.55	2	7
1,2-Dichlorobenzene	<0.89	<0.53	<0.74	7000	29333
1,3-Dichlorobenzene	<1.0	<0.85J	2.0J	-	-
1,4-Dichlorobenzene	<1.8	<1.2	<1.6	87	367
Dichlorodifluoromethane	<0.52	8.8	40	3300	15000
1,1-Dichloroethane	<0.40	<0.18	<0.30	600	2600
1,2-Dichloroethane	<0.27	<0.25	<0.36	37	160
1,1-Dichloroethene	<0.49	<0.20	<0.25	7000	29000
cis-1,2-Dichloroethene	<0.39	1.3	<0.36	-	-
trans-1,2-Dichloroethene	<0.51	<0.24	<0.31	-	-
1,2-Dichloropropane	<0.41	<0.24	<0.49	25	110
cis-1,3-Dichloropropene	<0.54	<0.31	<0.47	-	-
trans-1,3-Dichloropropene	<0.79	<0.40	<1.0	-	-
Dichlorotetrafluoroethane	<0.78	<0.46	<0.37	-	-
Ethanol	9390	652	1560E	-	-
Ethyl acetate	3.1	5.3	<0.24	2433	10333

Notes: All results expressed as µg/m3

VRSL Vapor Risk Screening Level (November 2017 Version)

Residential Sub-slab VRSL exceedances in underline (AF=0.03)

Small Commercial Sub-slab VRSL exceedances in bold (AF=0.03)

Large Commercial Sub-slab VRSL exceedances in bold and shaded (AF=0.01)

- Sub-slab VRSL not established for this compound

J Analyte detected below limit of quantitation

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

Table 3 - VOC Analytical Results - Vapor
Calumet Village
1717 E. Calumet Street
Appleton, WI 54915

Sample Identification	VP-1	VP-1R	VP-1C	Residential	Small Commercial
Sample Type	SS	SS	SS	Sub-Slab VRSL	Sub-Slab VRSL
Sample Date	11/21/2019	7/8/2020	7/20/2021		
Sample Duration (Hours)	0.5	0.5	0.5		
Volatile Organic Compounds (VOC) (Method: TO-15)					
Ethylbenzene	1.3J	1.8	1.6J	370	1600
4-Ethyltoluene	<1.0	3.0J	1.4J	-	-
N-Heptane	4.6	2.7	1.9	14000	60000
Hexachloro-1,3-butadiene	<3.5	<1.1	<2.3	-	-
N-Hexane	2.5	3.7	3	24333	103333
2-Hexanone	2.6J	0.75J	3.3J	1033	4333
Methylene chloride	2.9J	32.7	<1.1	21000	87000
4-Methyl-2-pentanone	<0.93	9.6	2.8J	103333	433333
Methyl tert-butyl ether	<1.2	<0.19	<0.23	3700	16000
Naphthalene	<2.3	4.7	18.6	28	120
2-Propanol	612	74.3	285	-	-
Propylene	<0.25	<0.14	4.4	103333	433333
Styrene	<0.62	1.1J	<0.70	33333	146667
1,1,2,2-Tetrachloroethane	<0.55	<0.42	<0.68	16	70
Tetrachloroethene	1.1J	3.4	2.8	1400	6000
Tetrahydrofuran	<0.47	0.57J	<0.33	-	-
Toluene	2.7	91.3	2.3	173333	733333
1,2,4-Trichlorobenzene	<6.7	<4.7	<8.9	70	293
1,1,1-Trichloroethane	<0.55	<0.19	<0.34	170000	730000
1,1,2-Trichloroethane	<0.43	<0.32	<0.36	7	29
Trichloroethene	<0.45	7.4	1.4	70	290
Trichlorofluoromethane	17.1	11.7	51.7	-	-
1,1,2-Trichlorotrifluoroethane	<1.0	0.92J	<0.53	-	-
1,2,4 -Trimethylbenzene	3.2	4.6	2.4	2100	8700
1,3,5 -Trimethylbenzene	1.7J	<0.42	1.3J	2100	8700
Vinyl Acetate	<0.48	<0.25	<0.38	7000	29333
Vinyl Chloride	<0.23	<0.14	<0.16	57	930
m&p-Xylene	2.0J	6.3	3.4	3300	15000
o-Xylene	1.2J	<0.27	4.2	3300	15000

Notes: All results expressed as µg/m3

VRSL Vapor Risk Screening Level (November 2017 Version)

Residential Sub-slab VRSL exceedances in underline (AF=0.03)

Small Commercial Sub-slab VRSL exceedances in bold (AF=0.03)

Large Commercial Sub-slab VRSL exceedances in bold and shaded (AF=0.01)

\- Sub-slab VRSL not established for this compound

J Analyte detected below limit of quantitation

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

Table 3 - VOC Analytical Results - Vapor
Calumet Village
1717 E. Calumet Street
Appleton, WI 54915

Sample Identification	SSV-1	Residential	Small Commercial
Sample Type	SS	Sub-Slab VRSL	Sub-Slab VRSL
Sample Date	7/20/2021		
Sample Duration (Hours)	0.5		
Volatile Organic Compounds (VOC) (Method: TO-15)			
Acetone	65.7	1066667	4666667
Benzene	17.0	120	530
Benzyl Chloride	<1.5	19	83
Bromodichloromethane	0.59J	25	110
Bromoform	<2.8	867	3667
Bromomethane	<0.26	17	733
1,3-Butadiene	<0.21	31	137
2-Butanone	10.8	173333	733333
Carbon Disulfide	2.2	24333	103333
Carbon tetrachloride	0.56J	160	670
Chlorobenzene	<0.27	1733	7333
Chloroethane	1.1	-	-
Chloroform	2.0	40	180
Chloromethane	1.3	3100	13000
Cyclohexane	3.5	210000	866667
Dibromochloromethane	<0.88	-	-
1,2-Dibromoethane	<0.51	2	7
1,2-Dichlorobenzene	<0.69	7000	29333
1,3-Dichlorobenzene	<0.87	-	-
1,4-Dichlorobenzene	<1.5	87	367
Dichlorodifluoromethane	4.5	3300	15000
1,1-Dichloroethane	<0.28	600	2600
1,2-Dichloroethane	<0.33	37	160
1,1-Dichloroethene	<0.24	7000	29000
cis-1,2-Dichloroethene	<0.33	-	-
trans-1,2-Dichloroethene	<0.29	-	-
1,2-Dichloropropane	<0.46	25	110
cis-1,3-Dichloropropene	<0.44	-	-
trans-1,3-Dichloropropene	<0.93	-	-
Dichlorotetrafluoroethane	<0.35	-	-
Ethanol	5000	-	-
Ethyl acetate	2.9	2433	10333

Notes: All results expressed as µg/m3

VRSL Vapor Risk Screening Level (November 2017 Version)

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Small Commercial Sub-slab VRSL exceedances in bold (AF=0.03)

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Table 3 - VOC Analytical Results - Vapor
Calumet Village
1717 E. Calumet Street
Appleton, WI 54915

Sample Identification	SSV-1	Residential	Small Commercial
Sample Type	SS	Sub-Slab VRSL	Sub-Slab VRSL
Sample Date	7/20/2021		
Sample Duration (Hours)	0.5		
Volatile Organic Compounds (VOC) (Method: TO-15)			
Ethylbenzene	2.0J	370	1600
4-Ethyltoluene	1.7J	-	-
N-Heptane	6.0	14000	60000
Hexachloro-1,3-butadiene	<2.1	-	-
N-Hexane	1.6	24333	103333
2-Hexanone	1.2J	1033	4333
Methylene chloride	1.3J	21000	87000
4-Methyl-2-pentanone	2.8J	103333	433333
Methyl tert-butyl ether	<0.22	3700	16000
Naphthalene	<3.7	28	120
2-Propanol	508	-	-
Propylene	<0.22	103333	433333
Styrene	2.0J	33333	146667
1,1,2,2-Tetrachloroethane	<0.64	16	70
Tetrachloroethene	0.68J	1400	6000
Tetrahydrofuran	1.0J	-	-
Toluene	65.5	173333	733333
1,2,4-Trichlorobenzene	<8.3	70	293
1,1,1-Trichloroethane	<0.32	170000	730000
1,1,2-Trichloroethane	<0.34	7	29
Trichloroethene	2.0	70	290
Trichlorofluoromethane	9.4	-	-
1,1,2-Trichlorotrifluoroethane	0.90J	-	-
1,2,4 -Trimethylbenzene	3.1	2100	8700
1,3,5 -Trimethylbenzene	1.2J	2100	8700
Vinyl Acetate	<0.36	7000	29333
Vinyl Chloride	<0.15	57	930
m&p-Xylene	6.1	3300	15000
o-Xylene	2.4	3300	15000

Notes: All results expressed as µg/m3

VRSL Vapor Risk Screening Level (November 2017 Version)

Residential Sub-slab VRSL exceedances in underline (AF=0.03)

Small Commercial Sub-slab VRSL exceedances in bold (AF=0.03)

Large Commercial Sub-slab VRSL exceedances in bold and shaded (AF=0.01)

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J Analyte detected below limit of quantitation

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

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

July 28, 2021

Mr. Timothy Anderson
United Engineering
2938 S. 166th Street
New Berlin, WI 53151

RE: Project: 19044
Pace Project No.: 10570966

Dear Mr. Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 19044
Pace Project No.: 10570966

Pace Analytical Services, LLC - Minneapolis MN

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

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

SAMPLE SUMMARY

Project: 19044
Pace Project No.: 10570966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10570966001	**VP-1C**	Air	07/20/21 10:00	07/21/21 10:45
10570966002	**SSV-1**	Air	07/20/21 08:40	07/21/21 10:45

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

SAMPLE ANALYTE COUNT

Project: 19044
Pace Project No.: 10570966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10570966001	**VP-1C**	TO-15	MJL	61	PASI-M
10570966002	**SSV-1**	TO-15	HMH	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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

SUMMARY OF DETECTION

Project: 19044
Pace Project No.: 10570966

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10570966001	**VP-1C**					
TO-15	Acetone	207	ug/m3	11.1	07/27/21 04:14	
TO-15	Benzene	0.46J	ug/m3	0.59	07/27/21 04:14	
TO-15	2-Butanone (MEK)	18.2	ug/m3	5.5	07/27/21 04:14	
TO-15	Carbon disulfide	0.26J	ug/m3	1.2	07/27/21 04:14	
TO-15	Chloroform	2.9	ug/m3	0.91	07/27/21 04:14	
TO-15	Chloromethane	1.1	ug/m3	0.77	07/27/21 04:14	
TO-15	Cyclohexane	4.1	ug/m3	3.2	07/27/21 04:14	
TO-15	1,3-Dichlorobenzene	2.0J	ug/m3	5.6	07/27/21 04:14	
TO-15	Dichlorodifluoromethane	40.0	ug/m3	1.8	07/27/21 04:14	
TO-15	Ethanol	1560	ug/m3	3.5	07/27/21 04:14	E
TO-15	Ethylbenzene	1.6J	ug/m3	1.6	07/27/21 04:14	
TO-15	4-Ethyltoluene	1.4J	ug/m3	4.6	07/27/21 04:14	
TO-15	n-Heptane	1.9	ug/m3	1.5	07/27/21 04:14	
TO-15	n-Hexane	3.0	ug/m3	1.3	07/27/21 04:14	
TO-15	2-Hexanone	3.3J	ug/m3	7.6	07/27/21 04:14	
TO-15	4-Methyl-2-pentanone (MIBK)	2.8J	ug/m3	7.6	07/27/21 04:14	
TO-15	Naphthalene	18.6	ug/m3	4.9	07/27/21 04:14	
TO-15	2-Propanol	285	ug/m3	4.6	07/27/21 04:14	
TO-15	Propylene	4.4	ug/m3	1.6	07/27/21 04:14	
TO-15	Tetrachloroethene	2.8	ug/m3	1.3	07/27/21 04:14	
TO-15	Toluene	2.3	ug/m3	1.4	07/27/21 04:14	
TO-15	Trichloroethene	1.4	ug/m3	1.0	07/27/21 04:14	
TO-15	Trichlorofluoromethane	51.7	ug/m3	2.1	07/27/21 04:14	
TO-15	1,2,4-Trimethylbenzene	2.4	ug/m3	1.8	07/27/21 04:14	
TO-15	1,3,5-Trimethylbenzene	1.3J	ug/m3	1.8	07/27/21 04:14	
TO-15	m&p-Xylene	3.4	ug/m3	3.2	07/27/21 04:14	
TO-15	o-Xylene	4.2	ug/m3	1.6	07/27/21 04:14	
10570966002	**SSV-1**					
TO-15	Acetone	65.7	ug/m3	10.3	07/26/21 21:22	
TO-15	Benzene	17.0	ug/m3	0.56	07/26/21 21:22	
TO-15	Bromodichloromethane	0.59J	ug/m3	2.3	07/26/21 21:22	
TO-15	2-Butanone (MEK)	10.8	ug/m3	5.1	07/26/21 21:22	
TO-15	Carbon disulfide	2.2	ug/m3	1.1	07/26/21 21:22	
TO-15	Carbon tetrachloride	0.56J	ug/m3	2.2	07/26/21 21:22	
TO-15	Chloroethane	1.1	ug/m3	0.92	07/26/21 21:22	
TO-15	Chloroform	2.0	ug/m3	0.85	07/26/21 21:22	
TO-15	Chloromethane	1.3	ug/m3	0.72	07/26/21 21:22	
TO-15	Cyclohexane	3.5	ug/m3	3.0	07/26/21 21:22	
TO-15	Dichlorodifluoromethane	4.5	ug/m3	1.7	07/26/21 21:22	
TO-15	Ethanol	5000	ug/m3	197	07/27/21 13:21	
TO-15	Ethyl acetate	2.9	ug/m3	1.3	07/26/21 21:22	
TO-15	Ethylbenzene	2.0J	ug/m3	3.8	07/26/21 21:22	
TO-15	4-Ethyltoluene	1.7J	ug/m3	4.3	07/26/21 21:22	
TO-15	n-Heptane	6.0	ug/m3	1.4	07/26/21 21:22	
TO-15	n-Hexane	1.6	ug/m3	1.2	07/26/21 21:22	
TO-15	2-Hexanone	1.2J	ug/m3	7.1	07/26/21 21:22	
TO-15	Methylene Chloride	1.3J	ug/m3	6.0	07/26/21 21:22	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 19044
Pace Project No.: 10570966

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10570966002	**SSV-1**					
TO-15	4-Methyl-2-pentanone (MIBK)	2.8J	ug/m3	7.1	07/26/21 21:22	
TO-15	2-Propanol	508	ug/m3	4.3	07/26/21 21:22	
TO-15	Styrene	2.0J	ug/m3	3.7	07/26/21 21:22	
TO-15	Tetrachloroethene	0.68J	ug/m3	1.2	07/26/21 21:22	
TO-15	Tetrahydrofuran	1.0J	ug/m3	1.0	07/26/21 21:22	
TO-15	Toluene	65.5	ug/m3	1.3	07/26/21 21:22	
TO-15	Trichloroethene	2.0	ug/m3	0.93	07/26/21 21:22	C8
TO-15	Trichlorofluoromethane	9.4	ug/m3	1.9	07/26/21 21:22	
TO-15	1,1,2-Trichlorotrifluoroethane	0.90J	ug/m3	2.7	07/26/21 21:22	
TO-15	1,2,4-Trimethylbenzene	3.1	ug/m3	1.7	07/26/21 21:22	
TO-15	1,3,5-Trimethylbenzene	1.2J	ug/m3	1.7	07/26/21 21:22	
TO-15	m&p-Xylene	6.1	ug/m3	3.0	07/26/21 21:22	
TO-15	o-Xylene	2.4	ug/m3	1.5	07/26/21 21:22	

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 19044
Pace Project No.: 10570966

Method: **TO-15**
Description: TO15 MSV AIR
Client: United Engineering UEC
Date: July 28, 2021

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.

QC Batch: 758904

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 4046918)
  - 1,2-Dibromoethane (EDB)

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:

Analyte Comments:

QC Batch: 758904

C8: Result may be biased high due to carryover from previously analyzed sample.
- SSV-1 (Lab ID: 10570966002)
  - Trichloroethene

QC Batch: 758941

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DUP (Lab ID: 4048000)
  - Ethanol
  - Cyclohexane

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: 19044
Pace Project No.: 10570966

Method: **TO-15**
Description: TO15 MSV AIR
Client: United Engineering UEC
Date: July 28, 2021

Analyte Comments:

QC Batch: 758941

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

- VP-1C (Lab ID: 10570966001)
  - Ethanol

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

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

ANALYTICAL RESULTS

Project: 19044
Pace Project No.: 10570966

Sample: VP-1C **Lab ID: 10570966001** Collected: 07/20/21 10:00 Received: 07/21/21 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**207**	ug/m3	11.1	3.3	1.83		07/27/21 04:14	67-64-1	
Benzene	**0.46J**	ug/m3	0.59	0.21	1.83		07/27/21 04:14	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.8	1.6	1.83		07/27/21 04:14	100-44-7	
Bromodichloromethane	**<0.43**	ug/m3	2.5	0.43	1.83		07/27/21 04:14	75-27-4	
Bromoform	**<3.0**	ug/m3	9.6	3.0	1.83		07/27/21 04:14	75-25-2	
Bromomethane	**<0.27**	ug/m3	1.4	0.27	1.83		07/27/21 04:14	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.82	0.22	1.83		07/27/21 04:14	106-99-0	
2-Butanone (MEK)	**18.2**	ug/m3	5.5	0.85	1.83		07/27/21 04:14	78-93-3	
Carbon disulfide	**0.26J**	ug/m3	1.2	0.24	1.83		07/27/21 04:14	75-15-0	
Carbon tetrachloride	**<0.51**	ug/m3	2.3	0.51	1.83		07/27/21 04:14	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	1.7	0.28	1.83		07/27/21 04:14	108-90-7	
Chloroethane	**<0.41**	ug/m3	0.98	0.41	1.83		07/27/21 04:14	75-00-3	
Chloroform	**2.9**	ug/m3	0.91	0.33	1.83		07/27/21 04:14	67-66-3	
Chloromethane	**1.1**	ug/m3	0.77	0.16	1.83		07/27/21 04:14	74-87-3	
Cyclohexane	**4.1**	ug/m3	3.2	0.40	1.83		07/27/21 04:14	110-82-7	
Dibromochloromethane	**<0.94**	ug/m3	3.2	0.94	1.83		07/27/21 04:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.4	0.55	1.83		07/27/21 04:14	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	5.6	0.74	1.83		07/27/21 04:14	95-50-1	
1,3-Dichlorobenzene	**2.0J**	ug/m3	5.6	0.93	1.83		07/27/21 04:14	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.6	1.6	1.83		07/27/21 04:14	106-46-7	
Dichlorodifluoromethane	**40.0**	ug/m3	1.8	0.34	1.83		07/27/21 04:14	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.5	0.30	1.83		07/27/21 04:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	1.5	0.36	1.83		07/27/21 04:14	107-06-2	
1,1-Dichloroethene	**<0.25**	ug/m3	1.5	0.25	1.83		07/27/21 04:14	75-35-4	
cis-1,2-Dichloroethene	**<0.36**	ug/m3	1.5	0.36	1.83		07/27/21 04:14	156-59-2	
trans-1,2-Dichloroethene	**<0.31**	ug/m3	1.5	0.31	1.83		07/27/21 04:14	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		07/27/21 04:14	78-87-5	
cis-1,3-Dichloropropene	**<0.47**	ug/m3	4.2	0.47	1.83		07/27/21 04:14	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/m3	4.2	1.0	1.83		07/27/21 04:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.37**	ug/m3	2.6	0.37	1.83		07/27/21 04:14	76-14-2	
Ethanol	**1560**	ug/m3	3.5	1.1	1.83		07/27/21 04:14	64-17-5	E
Ethyl acetate	**<0.24**	ug/m3	1.3	0.24	1.83		07/27/21 04:14	141-78-6	
Ethylbenzene	**1.6J**	ug/m3	1.6	0.57	1.83		07/27/21 04:14	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	4.6	0.86	1.83		07/27/21 04:14	622-96-8	
n-Heptane	**1.9**	ug/m3	1.5	0.33	1.83		07/27/21 04:14	142-82-5	
Hexachloro-1,3-butadiene	**<2.3**	ug/m3	9.9	2.3	1.83		07/27/21 04:14	87-68-3	
n-Hexane	**3.0**	ug/m3	1.3	0.35	1.83		07/27/21 04:14	110-54-3	
2-Hexanone	**3.3J**	ug/m3	7.6	0.81	1.83		07/27/21 04:14	591-78-6	
Methylene Chloride	**<1.1**	ug/m3	6.5	1.1	1.83		07/27/21 04:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8J**	ug/m3	7.6	0.59	1.83		07/27/21 04:14	108-10-1	
Methyl-tert-butyl ether	**<0.23**	ug/m3	6.7	0.23	1.83		07/27/21 04:14	1634-04-4	
Naphthalene	**18.6**	ug/m3	4.9	4.0	1.83		07/27/21 04:14	91-20-3	
2-Propanol	**285**	ug/m3	4.6	0.93	1.83		07/27/21 04:14	67-63-0	
Propylene	**4.4**	ug/m3	1.6	0.24	1.83		07/27/21 04:14	115-07-1	
Styrene	**<0.70**	ug/m3	1.6	0.70	1.83		07/27/21 04:14	100-42-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19044
Pace Project No.: 10570966

Sample: VP-1C **Lab ID: 10570966001** Collected: 07/20/21 10:00 Received: 07/21/21 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.68**	ug/m3	2.6	0.68	1.83		07/27/21 04:14	79-34-5	
Tetrachloroethene	**2.8**	ug/m3	1.3	0.53	1.83		07/27/21 04:14	127-18-4	
Tetrahydrofuran	**<0.33**	ug/m3	1.1	0.33	1.83		07/27/21 04:14	109-99-9	
Toluene	**2.3**	ug/m3	1.4	0.45	1.83		07/27/21 04:14	108-88-3	
1,2,4-Trichlorobenzene	**<8.9**	ug/m3	13.8	8.9	1.83		07/27/21 04:14	120-82-1	
1,1,1-Trichloroethane	**<0.34**	ug/m3	2.0	0.34	1.83		07/27/21 04:14	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	1.0	0.36	1.83		07/27/21 04:14	79-00-5	
Trichloroethene	**1.4**	ug/m3	1.0	0.36	1.83		07/27/21 04:14	79-01-6	
Trichlorofluoromethane	**51.7**	ug/m3	2.1	0.43	1.83		07/27/21 04:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.9	0.53	1.83		07/27/21 04:14	76-13-1	
1,2,4-Trimethylbenzene	**2.4**	ug/m3	1.8	0.65	1.83		07/27/21 04:14	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.8	0.53	1.83		07/27/21 04:14	108-67-8	
Vinyl acetate	**<0.38**	ug/m3	3.3	0.38	1.83		07/27/21 04:14	108-05-4	
Vinyl chloride	**<0.16**	ug/m3	0.48	0.16	1.83		07/27/21 04:14	75-01-4	
m&p-Xylene	**3.4**	ug/m3	3.2	1.2	1.83		07/27/21 04:14	179601-23-1	
o-Xylene	**4.2**	ug/m3	1.6	0.50	1.83		07/27/21 04:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 19044
Pace Project No.: 10570966

Sample: SSV-1 **Lab ID: 10570966002** Collected: 07/20/21 08:40 Received: 07/21/21 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**65.7**	ug/m3	10.3	3.1	1.71		07/26/21 21:22	67-64-1	
Benzene	**17.0**	ug/m3	0.56	0.19	1.71		07/26/21 21:22	71-43-2	
Benzyl chloride	**<1.5**	ug/m3	4.5	1.5	1.71		07/26/21 21:22	100-44-7	
Bromodichloromethane	**0.59J**	ug/m3	2.3	0.41	1.71		07/26/21 21:22	75-27-4	
Bromoform	**<2.8**	ug/m3	9.0	2.8	1.71		07/26/21 21:22	75-25-2	
Bromomethane	**<0.26**	ug/m3	1.3	0.26	1.71		07/26/21 21:22	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.77	0.21	1.71		07/26/21 21:22	106-99-0	
2-Butanone (MEK)	**10.8**	ug/m3	5.1	0.80	1.71		07/26/21 21:22	78-93-3	
Carbon disulfide	**2.2**	ug/m3	1.1	0.22	1.71		07/26/21 21:22	75-15-0	
Carbon tetrachloride	**0.56J**	ug/m3	2.2	0.48	1.71		07/26/21 21:22	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.6	0.27	1.71		07/26/21 21:22	108-90-7	
Chloroethane	**1.1**	ug/m3	0.92	0.38	1.71		07/26/21 21:22	75-00-3	
Chloroform	**2.0**	ug/m3	0.85	0.31	1.71		07/26/21 21:22	67-66-3	
Chloromethane	**1.3**	ug/m3	0.72	0.15	1.71		07/26/21 21:22	74-87-3	
Cyclohexane	**3.5**	ug/m3	3.0	0.38	1.71		07/26/21 21:22	110-82-7	
Dibromochloromethane	**<0.88**	ug/m3	3.0	0.88	1.71		07/26/21 21:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.51**	ug/m3	1.3	0.51	1.71		07/26/21 21:22	106-93-4	
1,2-Dichlorobenzene	**<0.69**	ug/m3	5.2	0.69	1.71		07/26/21 21:22	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/m3	5.2	0.87	1.71		07/26/21 21:22	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	5.2	1.5	1.71		07/26/21 21:22	106-46-7	
Dichlorodifluoromethane	**4.5**	ug/m3	1.7	0.32	1.71		07/26/21 21:22	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/m3	1.4	0.28	1.71		07/26/21 21:22	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	1.4	0.33	1.71		07/26/21 21:22	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/m3	1.4	0.24	1.71		07/26/21 21:22	75-35-4	
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.4	0.33	1.71		07/26/21 21:22	156-59-2	
trans-1,2-Dichloroethene	**<0.29**	ug/m3	1.4	0.29	1.71		07/26/21 21:22	156-60-5	
1,2-Dichloropropane	**<0.46**	ug/m3	1.6	0.46	1.71		07/26/21 21:22	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/m3	4.0	0.44	1.71		07/26/21 21:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.93**	ug/m3	4.0	0.93	1.71		07/26/21 21:22	10061-02-6	
Dichlorotetrafluoroethane	**<0.35**	ug/m3	2.4	0.35	1.71		07/26/21 21:22	76-14-2	
Ethanol	**5000**	ug/m3	197	60.7	102.6		07/27/21 13:21	64-17-5	
Ethyl acetate	**2.9**	ug/m3	1.3	0.22	1.71		07/26/21 21:22	141-78-6	
Ethylbenzene	**2.0J**	ug/m3	3.8	0.53	1.71		07/26/21 21:22	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	4.3	0.81	1.71		07/26/21 21:22	622-96-8	
n-Heptane	**6.0**	ug/m3	1.4	0.31	1.71		07/26/21 21:22	142-82-5	
Hexachloro-1,3-butadiene	**<2.1**	ug/m3	9.3	2.1	1.71		07/26/21 21:22	87-68-3	
n-Hexane	**1.6**	ug/m3	1.2	0.33	1.71		07/26/21 21:22	110-54-3	
2-Hexanone	**1.2J**	ug/m3	7.1	0.76	1.71		07/26/21 21:22	591-78-6	
Methylene Chloride	**1.3J**	ug/m3	6.0	1.0	1.71		07/26/21 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8J**	ug/m3	7.1	0.55	1.71		07/26/21 21:22	108-10-1	
Methyl-tert-butyl ether	**<0.22**	ug/m3	6.3	0.22	1.71		07/26/21 21:22	1634-04-4	
Naphthalene	**<3.7**	ug/m3	4.5	3.7	1.71		07/26/21 21:22	91-20-3	
2-Propanol	**508**	ug/m3	4.3	0.87	1.71		07/26/21 21:22	67-63-0	
Propylene	**<0.22**	ug/m3	1.5	0.22	1.71		07/26/21 21:22	115-07-1	
Styrene	**2.0J**	ug/m3	3.7	0.66	1.71		07/26/21 21:22	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 19044
Pace Project No.: 10570966

Sample: SSV-1 **Lab ID: 10570966002** Collected: 07/20/21 08:40 Received: 07/21/21 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.64**	ug/m3	2.4	0.64	1.71		07/26/21 21:22	79-34-5	
Tetrachloroethene	**0.68J**	ug/m3	1.2	0.50	1.71		07/26/21 21:22	127-18-4	
Tetrahydrofuran	**1.0J**	ug/m3	1.0	0.31	1.71		07/26/21 21:22	109-99-9	
Toluene	**65.5**	ug/m3	1.3	0.42	1.71		07/26/21 21:22	108-88-3	
1,2,4-Trichlorobenzene	**<8.3**	ug/m3	12.9	8.3	1.71		07/26/21 21:22	120-82-1	
1,1,1-Trichloroethane	**<0.32**	ug/m3	1.9	0.32	1.71		07/26/21 21:22	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	0.95	0.34	1.71		07/26/21 21:22	79-00-5	
Trichloroethene	**2.0**	ug/m3	0.93	0.34	1.71		07/26/21 21:22	79-01-6	C8
Trichlorofluoromethane	**9.4**	ug/m3	1.9	0.40	1.71		07/26/21 21:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.90J**	ug/m3	2.7	0.49	1.71		07/26/21 21:22	76-13-1	
1,2,4-Trimethylbenzene	**3.1**	ug/m3	1.7	0.61	1.71		07/26/21 21:22	95-63-6	
1,3,5-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.50	1.71		07/26/21 21:22	108-67-8	
Vinyl acetate	**<0.36**	ug/m3	1.2	0.36	1.71		07/26/21 21:22	108-05-4	
Vinyl chloride	**<0.15**	ug/m3	0.44	0.15	1.71		07/26/21 21:22	75-01-4	
m&p-Xylene	**6.1**	ug/m3	3.0	1.1	1.71		07/26/21 21:22	179601-23-1	
o-Xylene	**2.4**	ug/m3	1.5	0.46	1.71		07/26/21 21:22	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

QC Batch: 758904
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10570966002

METHOD BLANK: 4046917 Matrix: Air
Associated Lab Samples: 10570966002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	07/26/21 10:52	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	07/26/21 10:52	
1,1,2-Trichloroethane	ug/m3	<0.098	0.28	07/26/21 10:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.14	0.78	07/26/21 10:52	
1,1-Dichloroethane	ug/m3	<0.082	0.41	07/26/21 10:52	
1,1-Dichloroethene	ug/m3	<0.069	0.40	07/26/21 10:52	
1,2,4-Trichlorobenzene	ug/m3	<2.4	3.8	07/26/21 10:52	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	07/26/21 10:52	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	07/26/21 10:52	
1,2-Dichlorobenzene	ug/m3	<0.20	1.5	07/26/21 10:52	
1,2-Dichloroethane	ug/m3	<0.097	0.41	07/26/21 10:52	
1,2-Dichloropropane	ug/m3	<0.13	0.47	07/26/21 10:52	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	07/26/21 10:52	
1,3-Butadiene	ug/m3	<0.060	0.22	07/26/21 10:52	
1,3-Dichlorobenzene	ug/m3	<0.25	1.5	07/26/21 10:52	
1,4-Dichlorobenzene	ug/m3	<0.44	1.5	07/26/21 10:52	
2-Butanone (MEK)	ug/m3	<0.23	1.5	07/26/21 10:52	
2-Hexanone	ug/m3	<0.22	2.1	07/26/21 10:52	
2-Propanol	ug/m3	<0.25	1.2	07/26/21 10:52	
4-Ethyltoluene	ug/m3	<0.24	1.2	07/26/21 10:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.16	2.1	07/26/21 10:52	
Acetone	ug/m3	<0.90	3.0	07/26/21 10:52	
Benzene	ug/m3	<0.057	0.16	07/26/21 10:52	
Benzyl chloride	ug/m3	<0.44	1.3	07/26/21 10:52	
Bromodichloromethane	ug/m3	<0.12	0.68	07/26/21 10:52	
Bromoform	ug/m3	<0.81	2.6	07/26/21 10:52	
Bromomethane	ug/m3	<0.075	0.39	07/26/21 10:52	
Carbon disulfide	ug/m3	<0.064	0.32	07/26/21 10:52	
Carbon tetrachloride	ug/m3	<0.14	0.64	07/26/21 10:52	
Chlorobenzene	ug/m3	<0.078	0.47	07/26/21 10:52	
Chloroethane	ug/m3	<0.11	0.27	07/26/21 10:52	
Chloroform	ug/m3	<0.092	0.25	07/26/21 10:52	
Chloromethane	ug/m3	<0.043	0.21	07/26/21 10:52	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	07/26/21 10:52	
cis-1,3-Dichloropropene	ug/m3	<0.13	1.2	07/26/21 10:52	
Cyclohexane	ug/m3	<0.11	0.88	07/26/21 10:52	
Dibromochloromethane	ug/m3	<0.26	0.86	07/26/21 10:52	
Dichlorodifluoromethane	ug/m3	<0.094	0.50	07/26/21 10:52	
Dichlorotetrafluoroethane	ug/m3	<0.10	0.71	07/26/21 10:52	
Ethanol	ug/m3	<0.30	0.96	07/26/21 10:52	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

METHOD BLANK: 4046917 Matrix: Air
Associated Lab Samples: 10570966002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.066	0.37	07/26/21 10:52	
Ethylbenzene	ug/m3	<0.15	1.1	07/26/21 10:52	
Hexachloro-1,3-butadiene	ug/m3	<0.62	2.7	07/26/21 10:52	
m&p-Xylene	ug/m3	<0.32	0.88	07/26/21 10:52	
Methyl-tert-butyl ether	ug/m3	<0.063	1.8	07/26/21 10:52	
Methylene Chloride	ug/m3	<0.30	1.8	07/26/21 10:52	
n-Heptane	ug/m3	<0.090	0.42	07/26/21 10:52	
n-Hexane	ug/m3	<0.096	0.36	07/26/21 10:52	
Naphthalene	ug/m3	<1.1	1.3	07/26/21 10:52	
o-Xylene	ug/m3	<0.14	0.44	07/26/21 10:52	
Propylene	ug/m3	<0.065	0.44	07/26/21 10:52	
Styrene	ug/m3	<0.19	1.1	07/26/21 10:52	
Tetrachloroethene	ug/m3	<0.15	0.34	07/26/21 10:52	
Tetrahydrofuran	ug/m3	<0.090	0.30	07/26/21 10:52	
Toluene	ug/m3	<0.12	0.38	07/26/21 10:52	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	07/26/21 10:52	
trans-1,3-Dichloropropene	ug/m3	<0.27	1.2	07/26/21 10:52	
Trichloroethene	ug/m3	<0.098	0.27	07/26/21 10:52	
Trichlorofluoromethane	ug/m3	<0.12	0.57	07/26/21 10:52	
Vinyl acetate	ug/m3	<0.10	0.36	07/26/21 10:52	
Vinyl chloride	ug/m3	<0.043	0.13	07/26/21 10:52	

LABORATORY CONTROL SAMPLE: 4046918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	66.7	112	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	86.5	115	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	74.2	124	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	92.8	111	70-130	
1,1-Dichloroethane	ug/m3	43.9	51.6	118	70-133	
1,1-Dichloroethene	ug/m3	43.5	47.2	108	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	210	119	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	59.4	110	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	113	137	70-138	CH
1,2-Dichlorobenzene	ug/m3	66.2	68.0	103	70-146	
1,2-Dichloroethane	ug/m3	44.4	50.2	113	70-132	
1,2-Dichloropropane	ug/m3	50.6	59.9	118	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	60.2	112	70-143	
1,3-Butadiene	ug/m3	24.2	27.6	114	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	69.2	104	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	82.3	124	70-140	
2-Butanone (MEK)	ug/m3	32.3	39.8	123	50-139	
2-Hexanone	ug/m3	44.8	54.7	122	70-148	
2-Propanol	ug/m3	149	165	111	67-135	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

LABORATORY CONTROL SAMPLE: 4046918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	58.0	108	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	52.7	117	70-139	
Acetone	ug/m3	128	148	116	64-130	
Benzene	ug/m3	34.8	41.8	120	70-131	
Benzyl chloride	ug/m3	57.6	63.9	111	70-130	
Bromodichloromethane	ug/m3	73.1	80.8	111	70-133	
Bromoform	ug/m3	114	130	114	70-137	
Bromomethane	ug/m3	42.5	47.5	112	64-134	
Carbon disulfide	ug/m3	34.4	40.3	117	70-131	
Carbon tetrachloride	ug/m3	69.4	73.5	106	70-131	
Chlorobenzene	ug/m3	50.2	57.2	114	70-130	
Chloroethane	ug/m3	28.8	33.2	115	69-141	
Chloroform	ug/m3	52.4	59.4	113	70-130	
Chloromethane	ug/m3	22.6	24.8	110	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	51.0	117	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	58.5	118	70-144	
Cyclohexane	ug/m3	37.4	45.1	120	70-137	
Dibromochloromethane	ug/m3	93.2	103	111	70-132	
Dichlorodifluoromethane	ug/m3	54.6	60.1	110	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	76.5	107	70-130	
Ethanol	ug/m3	124	147	118	63-133	
Ethyl acetate	ug/m3	38.9	46.6	120	70-136	
Ethylbenzene	ug/m3	47.8	54.1	113	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	140	106	70-135	
m&p-Xylene	ug/m3	95.4	108	113	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	45.7	115	70-143	
Methylene Chloride	ug/m3	190	224	118	70-130	
n-Heptane	ug/m3	44.6	53.5	120	70-137	
n-Hexane	ug/m3	38	46.3	122	70-135	
Naphthalene	ug/m3	65.2	77.6	119	67-132	
o-Xylene	ug/m3	47.6	53.2	112	70-141	
Propylene	ug/m3	18.9	23.1	122	70-130	
Styrene	ug/m3	47	52.8	112	70-142	
Tetrachloroethene	ug/m3	73.4	79.9	109	70-130	
Tetrahydrofuran	ug/m3	32.1	39.8	124	70-136	
Toluene	ug/m3	41.6	48.1	116	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	50.0	115	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	59.2	117	70-145	
Trichloroethene	ug/m3	58.4	65.4	112	70-130	
Trichlorofluoromethane	ug/m3	62	63.8	103	69-135	
Vinyl acetate	ug/m3	46.4	57.5	124	70-146	
Vinyl chloride	ug/m3	28	32.3	115	70-137	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048426

Parameter	Units	10570891001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.27		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.54		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.29		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.2J		25	
1,1-Dichloroethane	ug/m3	ND	<0.24		25	
1,1-Dichloroethene	ug/m3	ND	<0.20		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<7.1		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.1J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.44		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.59		25	
1,2-Dichloroethane	ug/m3	ND	<0.28		25	
1,2-Dichloropropane	ug/m3	ND	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	ND	0.65J		25	
1,3-Butadiene	ug/m3	ND	<0.18		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.74		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.3		25	
2-Butanone (MEK)	ug/m3	7.4	7.7	3	25	
2-Hexanone	ug/m3	ND	<0.65		25	
2-Propanol	ug/m3	42.2	43.5	3	25	
4-Ethyltoluene	ug/m3	ND	1.2J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2J		25	
Acetone	ug/m3	ND	<2.6		25	
Benzene	ug/m3	1.2	1.2	1	25	
Benzyl chloride	ug/m3	ND	<1.3		25	
Bromodichloromethane	ug/m3	ND	<0.35		25	
Bromoform	ug/m3	ND	<2.4		25	
Bromomethane	ug/m3	ND	<0.22		25	
Carbon disulfide	ug/m3	ND	<0.19		25	
Carbon tetrachloride	ug/m3	ND	0.52J		25	
Chlorobenzene	ug/m3	ND	<0.23		25	
Chloroethane	ug/m3	ND	<0.33		25	
Chloroform	ug/m3	ND	<0.27		25	
Chloromethane	ug/m3	1.2	1.2	3	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.37		25	
Cyclohexane	ug/m3	ND	2.5J		25	
Dibromochloromethane	ug/m3	ND	<0.75		25	
Dichlorodifluoromethane	ug/m3	2.5	2.6	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.29		25	
Ethanol	ug/m3	71.9	76.1	6	25	
Ethyl acetate	ug/m3	12.1	12.2	1	25	
Ethylbenzene	ug/m3	ND	1.5J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.8		25	
m&p-Xylene	ug/m3	3.4	3.4	2	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.18		25	
Methylene Chloride	ug/m3	ND	1.3J		25	
n-Heptane	ug/m3	2.2	2.3	2	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048426

Parameter	Units	10570891001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	3.4	3.3	3	25	
Naphthalene	ug/m3	ND	<3.2		25	
o-Xylene	ug/m3	ND	1.0J		25	
Propylene	ug/m3	ND	<0.19		25	
Styrene	ug/m3	ND	1.4J		25	
Tetrachloroethene	ug/m3	ND	<0.43		25	
Tetrahydrofuran	ug/m3	ND	<0.26		25	
Toluene	ug/m3	7.9	8.2	3	25	
trans-1,2-Dichloroethene	ug/m3	2.1	2.2	5	25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.79		25	
Trichloroethene	ug/m3	ND	<0.29		25	
Trichlorofluoromethane	ug/m3	1.7	1.7	0	25	
Vinyl acetate	ug/m3	ND	<0.30		25	
Vinyl chloride	ug/m3	ND	<0.13		25	

SAMPLE DUPLICATE: 4048427

Parameter	Units	10570891003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.29		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.59		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.31		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.90J		25	
1,1-Dichloroethane	ug/m3	ND	<0.26		25	
1,1-Dichloroethene	ug/m3	ND	<0.22		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<7.7		25	
1,2,4-Trimethylbenzene	ug/m3	9.3	9.3	0	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.47		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.64		25	
1,2-Dichloroethane	ug/m3	ND	<0.31		25	
1,2-Dichloropropane	ug/m3	ND	<0.43		25	
1,3,5-Trimethylbenzene	ug/m3	3.1	3.1	1	25	
1,3-Butadiene	ug/m3	ND	<0.19		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.80		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.4		25	
2-Butanone (MEK)	ug/m3	17.8	17.6	1	25	
2-Hexanone	ug/m3	ND	1.6J		25	
2-Propanol	ug/m3	11.7	11.7	0	25	
4-Ethyltoluene	ug/m3	ND	3.2J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.0J		25	
Acetone	ug/m3	79.4	77.9	2	25	
Benzene	ug/m3	2.3	2.3	1	25	
Benzyl chloride	ug/m3	ND	<1.4		25	
Bromodichloromethane	ug/m3	ND	<0.37		25	
Bromoform	ug/m3	ND	<2.6		25	
Bromomethane	ug/m3	ND	<0.24		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048427

Parameter	Units	10570891003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.20		25	
Carbon tetrachloride	ug/m3	ND	0.63J		25	
Chlorobenzene	ug/m3	ND	<0.24		25	
Chloroethane	ug/m3	ND	<0.35		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	1.2	1.2	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.31		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.40		25	
Cyclohexane	ug/m3	4.6	4.7	1	25	
Dibromochloromethane	ug/m3	ND	<0.81		25	
Dichlorodifluoromethane	ug/m3	2.6	2.6	0	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.32		25	
Ethanol	ug/m3	53.2	49.1	8	25	
Ethyl acetate	ug/m3	1.4	1.4	2	25	
Ethylbenzene	ug/m3	3.6	3.6	1	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.9		25	
m&p-Xylene	ug/m3	11.7	11.6	0	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.20		25	
Methylene Chloride	ug/m3	6.2	6.2	1	25	
n-Heptane	ug/m3	4.9	4.8	2	25	
n-Hexane	ug/m3	9.1	8.6	5	25	
Naphthalene	ug/m3	ND	<3.4		25	
o-Xylene	ug/m3	4.9	4.8	0	25	
Propylene	ug/m3	ND	<0.21		25	
Styrene	ug/m3	ND	2.0J		25	
Tetrachloroethene	ug/m3	2.0	1.9	2	25	
Tetrahydrofuran	ug/m3	5.3	6.3	17	25	
Toluene	ug/m3	16.1	16.0	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.86		25	
Trichloroethene	ug/m3	ND	0.42J		25	
Trichlorofluoromethane	ug/m3	34.4	33.8	2	25	
Vinyl acetate	ug/m3	ND	<0.33		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

QC Batch: 758941
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10570966001

METHOD BLANK: 4047138 Matrix: Air
Associated Lab Samples: 10570966001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	07/26/21 11:34	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	07/26/21 11:34	
1,1,2-Trichloroethane	ug/m3	<0.098	0.28	07/26/21 11:34	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.14	0.78	07/26/21 11:34	
1,1-Dichloroethane	ug/m3	<0.082	0.41	07/26/21 11:34	
1,1-Dichloroethene	ug/m3	<0.069	0.40	07/26/21 11:34	
1,2,4-Trichlorobenzene	ug/m3	<2.4	3.8	07/26/21 11:34	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	07/26/21 11:34	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	07/26/21 11:34	
1,2-Dichlorobenzene	ug/m3	<0.20	1.5	07/26/21 11:34	
1,2-Dichloroethane	ug/m3	<0.097	0.41	07/26/21 11:34	
1,2-Dichloropropane	ug/m3	<0.13	0.47	07/26/21 11:34	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	07/26/21 11:34	
1,3-Butadiene	ug/m3	<0.060	0.22	07/26/21 11:34	
1,3-Dichlorobenzene	ug/m3	<0.25	1.5	07/26/21 11:34	
1,4-Dichlorobenzene	ug/m3	<0.44	1.5	07/26/21 11:34	
2-Butanone (MEK)	ug/m3	<0.23	1.5	07/26/21 11:34	
2-Hexanone	ug/m3	<0.22	2.1	07/26/21 11:34	
2-Propanol	ug/m3	<0.25	1.2	07/26/21 11:34	
4-Ethyltoluene	ug/m3	<0.24	1.2	07/26/21 11:34	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.16	2.1	07/26/21 11:34	
Acetone	ug/m3	<0.90	3.0	07/26/21 11:34	
Benzene	ug/m3	<0.057	0.16	07/26/21 11:34	
Benzyl chloride	ug/m3	<0.44	1.3	07/26/21 11:34	
Bromodichloromethane	ug/m3	<0.12	0.68	07/26/21 11:34	
Bromoform	ug/m3	<0.81	2.6	07/26/21 11:34	
Bromomethane	ug/m3	<0.075	0.39	07/26/21 11:34	
Carbon disulfide	ug/m3	<0.064	0.32	07/26/21 11:34	
Carbon tetrachloride	ug/m3	<0.14	0.64	07/26/21 11:34	
Chlorobenzene	ug/m3	<0.078	0.47	07/26/21 11:34	
Chloroethane	ug/m3	<0.11	0.27	07/26/21 11:34	
Chloroform	ug/m3	<0.092	0.25	07/26/21 11:34	
Chloromethane	ug/m3	<0.043	0.21	07/26/21 11:34	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	07/26/21 11:34	
cis-1,3-Dichloropropene	ug/m3	<0.13	1.2	07/26/21 11:34	
Cyclohexane	ug/m3	0.34J	0.88	07/26/21 11:34	
Dibromochloromethane	ug/m3	<0.26	0.86	07/26/21 11:34	
Dichlorodifluoromethane	ug/m3	<0.094	0.50	07/26/21 11:34	
Dichlorotetrafluoroethane	ug/m3	<0.10	0.71	07/26/21 11:34	
Ethanol	ug/m3	<0.30	0.96	07/26/21 11:34	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

METHOD BLANK: 4047138 Matrix: Air
Associated Lab Samples: 10570966001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.066	0.37	07/26/21 11:34	
Ethylbenzene	ug/m3	<0.15	0.44	07/26/21 11:34	
Hexachloro-1,3-butadiene	ug/m3	<0.62	2.7	07/26/21 11:34	
m&p-Xylene	ug/m3	<0.32	0.88	07/26/21 11:34	
Methyl-tert-butyl ether	ug/m3	<0.063	1.8	07/26/21 11:34	
Methylene Chloride	ug/m3	<0.30	1.8	07/26/21 11:34	
n-Heptane	ug/m3	<0.090	0.42	07/26/21 11:34	
n-Hexane	ug/m3	0.32J	0.36	07/26/21 11:34	
Naphthalene	ug/m3	<1.1	1.3	07/26/21 11:34	
o-Xylene	ug/m3	<0.14	0.44	07/26/21 11:34	
Propylene	ug/m3	<0.065	0.44	07/26/21 11:34	
Styrene	ug/m3	<0.19	0.43	07/26/21 11:34	
Tetrachloroethene	ug/m3	<0.15	0.34	07/26/21 11:34	
Tetrahydrofuran	ug/m3	<0.090	0.30	07/26/21 11:34	
Toluene	ug/m3	<0.12	0.38	07/26/21 11:34	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	07/26/21 11:34	
trans-1,3-Dichloropropene	ug/m3	<0.27	1.2	07/26/21 11:34	
Trichloroethene	ug/m3	<0.098	0.27	07/26/21 11:34	
Trichlorofluoromethane	ug/m3	<0.12	0.57	07/26/21 11:34	
Vinyl acetate	ug/m3	<0.10	0.89	07/26/21 11:34	MN
Vinyl chloride	ug/m3	<0.043	0.13	07/26/21 11:34	

LABORATORY CONTROL SAMPLE: 4047139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	62.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	80.3	107	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	69.7	117	70-134	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	84.2	101	70-130	
1,1-Dichloroethane	ug/m3	43.9	48.2	110	70-133	
1,1-Dichloroethene	ug/m3	43.5	45.0	103	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	183	103	69-132	
1,2,4-Trimethylbenzene	ug/m3	54	56.0	104	70-142	
1,2-Dibromoethane (EDB)	ug/m3	82.5	102	123	70-138	
1,2-Dichlorobenzene	ug/m3	66.2	67.9	103	70-146	
1,2-Dichloroethane	ug/m3	44.4	48.5	109	70-132	
1,2-Dichloropropane	ug/m3	50.6	58.3	115	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	55.9	104	70-143	
1,3-Butadiene	ug/m3	24.2	27.5	114	70-136	
1,3-Dichlorobenzene	ug/m3	66.3	68.0	103	70-145	
1,4-Dichlorobenzene	ug/m3	66.3	68.2	103	70-140	
2-Butanone (MEK)	ug/m3	32.3	37.7	117	50-139	
2-Hexanone	ug/m3	44.8	47.8	107	70-148	
2-Propanol	ug/m3	149	153	103	67-135	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

LABORATORY CONTROL SAMPLE: 4047139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	55.9	104	70-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	56.4	126	70-139	
Acetone	ug/m3	128	129	101	64-130	
Benzene	ug/m3	34.8	39.5	113	70-131	
Benzyl chloride	ug/m3	57.6	60.4	105	70-130	
Bromodichloromethane	ug/m3	73.1	82.4	113	70-133	
Bromoform	ug/m3	114	118	104	70-137	
Bromomethane	ug/m3	42.5	46.4	109	64-134	
Carbon disulfide	ug/m3	34.4	39.0	113	70-131	
Carbon tetrachloride	ug/m3	69.4	72.9	105	70-131	
Chlorobenzene	ug/m3	50.2	58.3	116	70-130	
Chloroethane	ug/m3	28.8	33.4	116	69-141	
Chloroform	ug/m3	52.4	57.0	109	70-130	
Chloromethane	ug/m3	22.6	24.1	107	70-130	
cis-1,2-Dichloroethene	ug/m3	43.4	50.8	117	70-137	
cis-1,3-Dichloropropene	ug/m3	49.4	53.1	107	70-144	
Cyclohexane	ug/m3	37.4	40.2	107	70-137	
Dibromochloromethane	ug/m3	93.2	111	119	70-132	
Dichlorodifluoromethane	ug/m3	54.6	56.5	103	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	76.1	107	70-130	
Ethanol	ug/m3	124	130	105	63-133	
Ethyl acetate	ug/m3	38.9	46.6	120	70-136	
Ethylbenzene	ug/m3	47.8	50.4	105	70-142	
Hexachloro-1,3-butadiene	ug/m3	133	142	107	70-135	
m&p-Xylene	ug/m3	95.4	100	105	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	46.6	118	70-143	
Methylene Chloride	ug/m3	190	199	105	70-130	
n-Heptane	ug/m3	44.6	52.1	117	70-137	
n-Hexane	ug/m3	38	43.8	115	70-135	
Naphthalene	ug/m3	65.2	67.2	103	67-132	
o-Xylene	ug/m3	47.6	50.2	105	70-141	
Propylene	ug/m3	18.9	20.7	110	70-130	
Styrene	ug/m3	47	49.5	105	70-142	
Tetrachloroethene	ug/m3	73.4	84.1	115	70-130	
Tetrahydrofuran	ug/m3	32.1	41.3	129	70-136	
Toluene	ug/m3	41.6	50.1	121	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	48.8	112	70-130	
trans-1,3-Dichloropropene	ug/m3	50.5	52.8	105	70-145	
Trichloroethene	ug/m3	58.4	66.0	113	70-130	
Trichlorofluoromethane	ug/m3	62	61.7	100	69-135	
Vinyl acetate	ug/m3	46.4	50.5	109	70-146	
Vinyl chloride	ug/m3	28	30.6	109	70-137	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048000

Parameter	Units	10571388001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.29	<0.29		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.31	<0.31		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.54J	0.51J		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.21	<0.21		25	
1,2,4-Trichlorobenzene	ug/m3	<7.6	<7.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.7	1.8	2	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46		25	
1,2-Dichlorobenzene	ug/m3	<0.63	<0.63		25	
1,2-Dichloroethane	ug/m3	1.1J	1.1J		25	
1,2-Dichloropropane	ug/m3	<0.42	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	1.0J	1.0J		25	
1,3-Butadiene	ug/m3	<0.19	<0.19		25	
1,3-Dichlorobenzene	ug/m3	1.2J	<0.79		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	47.5	46.6	2	25	
2-Hexanone	ug/m3	1.8J	1.8J		25	
2-Propanol	ug/m3	107	105	2	25	
4-Ethyltoluene	ug/m3	1.2J	<0.73		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.93J	<0.50		25	
Acetone	ug/m3	237	234	1	25	
Benzene	ug/m3	1.1	1.1	2	25	
Benzyl chloride	ug/m3	<1.4	<1.4		25	
Bromodichloromethane	ug/m3	0.81J	0.80J		25	
Bromoform	ug/m3	<2.5	<2.5		25	
Bromomethane	ug/m3	<0.23	<0.23		25	
Carbon disulfide	ug/m3	0.79J	0.81J		25	
Carbon tetrachloride	ug/m3	0.53J	0.50J		25	
Chlorobenzene	ug/m3	<0.24	<0.24		25	
Chloroethane	ug/m3	<0.35	<0.35		25	
Chloroform	ug/m3	2.5	2.5	1	25	
Chloromethane	ug/m3	2.3	2.1	6	25	
cis-1,2-Dichloroethene	ug/m3	4.2	4.2	1	25	
cis-1,3-Dichloropropene	ug/m3	<0.40	<0.40		25	
Cyclohexane	ug/m3	375	371	1	25	E
Dibromochloromethane	ug/m3	<0.80	<0.80		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.31	<0.31		25	
Ethanol	ug/m3	933	900	4	25	E
Ethyl acetate	ug/m3	23.1	22.5	3	25	
Ethylbenzene	ug/m3	3.0	3.0	2	25	
Hexachloro-1,3-butadiene	ug/m3	<1.9	<1.9		25	
m&p-Xylene	ug/m3	6.9	6.8	2	25	
Methyl-tert-butyl ether	ug/m3	<0.20	<0.20		25	
Methylene Chloride	ug/m3	<0.92	<0.92		25	
n-Heptane	ug/m3	59.4	57.7	3	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048000

Parameter	Units	10571388001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	7.8	7.8	1	25	
Naphthalene	ug/m3	<3.4	<3.4		25	
o-Xylene	ug/m3	3.1	2.9	5	25	
Propylene	ug/m3	<0.20	<0.20		25	
Styrene	ug/m3	4.7	4.5	3	25	
Tetrachloroethene	ug/m3	<0.45	<0.45		25	
Tetrahydrofuran	ug/m3	105	104	1	25	
Toluene	ug/m3	11.2	10.8	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.26	<0.26		25	
trans-1,3-Dichloropropene	ug/m3	<0.84	<0.84		25	
Trichloroethene	ug/m3	2.1	2.1	2	25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl acetate	ug/m3	<0.32	<0.32		25	
Vinyl chloride	ug/m3	0.81	0.84	3	25	

SAMPLE DUPLICATE: 4048001

Parameter	Units	10571388003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.29	<0.29		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.31	<0.31		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.4J	1.3J		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.21	<0.21		25	
1,2,4-Trichlorobenzene	ug/m3	<7.6	<7.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46		25	
1,2-Dichlorobenzene	ug/m3	<0.63	<0.63		25	
1,2-Dichloroethane	ug/m3	<0.30	<0.30		25	
1,2-Dichloropropane	ug/m3	<0.42	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	<0.45	<0.45		25	
1,3-Butadiene	ug/m3	<0.19	<0.19		25	
1,3-Dichlorobenzene	ug/m3	<0.79	<0.79		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	1.9J	1.9J		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	17.9	17.3	3	25	
4-Ethyltoluene	ug/m3	<0.73	<0.73		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.50	<0.50		25	
Acetone	ug/m3	11.7	10.6	9	25	
Benzene	ug/m3	0.48J	0.46J		25	
Benzyl chloride	ug/m3	<1.4	<1.4		25	
Bromodichloromethane	ug/m3	<0.37	<0.37		25	
Bromoform	ug/m3	<2.5	<2.5		25	
Bromomethane	ug/m3	<0.23	<0.23		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 19044
Pace Project No.: 10570966

SAMPLE DUPLICATE: 4048001

Parameter	Units	10571388003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.20	<0.20		25	
Carbon tetrachloride	ug/m3	0.47J	0.45J		25	
Chlorobenzene	ug/m3	<0.24	<0.24		25	
Chloroethane	ug/m3	<0.35	<0.35		25	
Chloroform	ug/m3	<0.28	<0.28		25	
Chloromethane	ug/m3	1.0	0.99	2	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.40	<0.40		25	
Cyclohexane	ug/m3	1.6J	1.6J		25	
Dibromochloromethane	ug/m3	<0.80	<0.80		25	
Dichlorodifluoromethane	ug/m3	2.9	2.9	0	25	
Dichlorotetrafluoroethane	ug/m3	<0.31	<0.31		25	
Ethanol	ug/m3	14.5	13.4	7	25	
Ethyl acetate	ug/m3	<0.20	0.54J		25	
Ethylbenzene	ug/m3	0.79J	0.78J		25	
Hexachloro-1,3-butadiene	ug/m3	<1.9	<1.9		25	
m&p-Xylene	ug/m3	1.8J	1.8J		25	
Methyl-tert-butyl ether	ug/m3	<0.20	<0.20		25	
Methylene Chloride	ug/m3	<0.92	<0.92		25	
n-Heptane	ug/m3	0.90J	0.92J		25	
n-Hexane	ug/m3	1.6	1.6	1	25	
Naphthalene	ug/m3	<3.4	<3.4		25	
o-Xylene	ug/m3	0.69J	0.69J		25	
Propylene	ug/m3	0.77J	0.78J		25	
Styrene	ug/m3	<0.60	<0.60		25	
Tetrachloroethene	ug/m3	<0.45	<0.45		25	
Tetrahydrofuran	ug/m3	<0.28	<0.28		25	
Toluene	ug/m3	3.7	3.5	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.26	<0.26		25	
trans-1,3-Dichloropropene	ug/m3	<0.84	<0.84		25	
Trichloroethene	ug/m3	<0.30	<0.30		25	
Trichlorofluoromethane	ug/m3	1.4J	1.3J		25	
Vinyl acetate	ug/m3	<0.32	<0.32		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 19044
Pace Project No.: 10570966

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.

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19044
Pace Project No.: 10570966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10570966001	**VP-1C**	TO-15	758941		
10570966002	**SSV-1**	TO-15	758904		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

59428

Page: 1 of 1

Section A Required Client Information:

Company: VEC, INC.
Address: 2938 S. 166TH ST. NEW BERLIN, WI 53151
Email To: TAVEC@SBCGLOBAL.NET
Phone: 262-788-1447 Fax: 262-706-4400
Requested Due Date/TAT:

Section B Required Project Information:

Report To: T. ANDERSON
Copy To:
Purchase Order No.:
Project Name:
Project Number: 19044

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 22093

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

Location of Sampling by State: WI

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

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

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: TO-14	Pace Lab ID
1	VP-1C	6LC	-	7/20/21	9:30	7/20/21	10:00	29	9	1615		X	001
2	SSV-1	1LC	-	7/20/21	8:40	7/20/21	8:40		0	1364		X	002
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

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)

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NICK ANDERSON / VEC, INC.	7/20/21	14:00	Pace	7-21-21	10:45

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: NICK ANDERSON
SIGNATURE of SAMPLER: Nick Anderson
DATE Signed (MM / DD / YY): 07/20/21

WO# : 10570966
10570966

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 24Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.00**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt

Client Name: UEC

Project #:

WO#: 10570966
PM: KNH **Due Date: 07/28/21**
CLIENT: United Eng

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 9753 8442 2227

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): _____ **Corrected Temp (°C):** _____ **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** 7/21-21 MI

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ No	13. 1 gauge attached.

Gauge # ☐ 10AIR26 ☒ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
VP-1C	1615	3108	-8	+5					
SSV-A	1364	—	-0.5	+10					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 7/21/2021

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