

**ATTACHMENT 3
SAMPLING RESULTS
(MAY 2023 (24-HOUR SAMPLE))**

June 07, 2023

David Cochran
City of Bristol VA
2655 Valley Dr
Bristol, VA 24201

RE: Project: May 2023 24 hour sample
Pace Project No.: 92669333

Dear David Cochran:

Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 2023. 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 National - Mt. Juliet

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

Sincerely,



Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jonathan Hayes
Logan Howard, City of Bristol VA
Joey Lamie
Jennifer Robb, City of Bristol VA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Mold Certification #: LAB0152

Texas Certification #: T 104704245-17-14

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92669333001	001	Air	05/22/23 10:29	05/23/23 10:40

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SAMPLE ANALYTE COUNT

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92669333001	001	TO-15	AA	71	PAN

PAN = Pace National - Mt. Juliet

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SUMMARY OF DETECTION

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92669333001	001					
TO-15	Acetone	28.0	ug/m3	2.97	06/02/23 12:06	
TO-15	Acetonitrile	0.816J	ug/m3	8.39	06/02/23 12:06	J
TO-15	Benzene	2.72	ug/m3	0.639	06/02/23 12:06	
TO-15	Chloromethane	1.77	ug/m3	0.413	06/02/23 12:06	
TO-15	1,3-Dichlorobenzene	1.83	ug/m3	1.20	06/02/23 12:06	
TO-15	1,4-Dichlorobenzene	2.51	ug/m3	1.20	06/02/23 12:06	LO
TO-15	Ethanol	11.9	ug/m3	4.71	06/02/23 12:06	
TO-15	Ethylbenzene	0.737J	ug/m3	0.867	06/02/23 12:06	J
TO-15	Trichlorofluoromethane	1.44	ug/m3	1.12	06/02/23 12:06	
TO-15	Dichlorodifluoromethane	2.90	ug/m3	0.989	06/02/23 12:06	
TO-15	1,1,2-Trichlorotrifluoroethane	0.639J	ug/m3	1.53	06/02/23 12:06	J
TO-15	Hexachloro-1,3-butadiene	6.84	ug/m3	6.73	06/02/23 12:06	
TO-15	Methylene Chloride	0.576J	ug/m3	0.694	06/02/23 12:06	J
TO-15	2-Hexanone	1.43J	ug/m3	5.11	06/02/23 12:06	J
TO-15	2-Butanone (MEK)	6.10	ug/m3	3.69	06/02/23 12:06	
TO-15	4-Methyl-2-pentanone (MIBK)	0.536J	ug/m3	5.12	06/02/23 12:06	J
TO-15	2-Propanol	18.3	ug/m3	3.07	06/02/23 12:06	
TO-15	Tetrahydrofuran	0.837	ug/m3	0.590	06/02/23 12:06	
TO-15	Toluene	1.59J	ug/m3	1.88	06/02/23 12:06	J
TO-15	1,2,4-Trichlorobenzene	2.81J	ug/m3	4.66	06/02/23 12:06	J
TO-15	1,2,4-Trimethylbenzene	3.03	ug/m3	0.982	06/02/23 12:06	
TO-15	m&p-Xylene	1.82	ug/m3	1.73	06/02/23 12:06	
TO-15	Xylene (Total)	1.82J	ug/m3	2.61	06/02/23 12:06	J

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Method: TO-15

Description: VOA (MS) TO-15

Client: City of Bristol VA

Date: June 07, 2023

General Information:

1 sample was analyzed for TO-15 by Pace National Mt. Juliet. 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.

QC Batch: 2070590

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCSD (Lab ID: R3933821-3)
- 1,4-Dichlorobenzene

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Sample: 001		Lab ID: 92669333001		Collected: 05/22/23 10:29		Received: 05/23/23 10:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (MS) TO-15		Analytical Method: TO-15 Preparation Method: TO-15 Pace National - Mt. Juliet							
Acetone	28.0	ug/m3	2.97	1.39	1	06/02/23 12:06	06/02/23 12:06	67-64-1	
Acetonitrile	0.816J	ug/m3	8.39	0.395	1	06/02/23 12:06	06/02/23 12:06	75-05-8	J
Allyl chloride	ND	ug/m3	0.626	0.357	1	06/02/23 12:06	06/02/23 12:06	107-05-1	
Benzene	2.72	ug/m3	0.639	0.228	1	06/02/23 12:06	06/02/23 12:06	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.311	1	06/02/23 12:06	06/02/23 12:06	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.471	1	06/02/23 12:06	06/02/23 12:06	75-27-4	
Bromoform	ND	ug/m3	6.21	0.757	1	06/02/23 12:06	06/02/23 12:06	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.381	1	06/02/23 12:06	06/02/23 12:06	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.230	1	06/02/23 12:06	06/02/23 12:06	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.317	1	06/02/23 12:06	06/02/23 12:06	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.461	1	06/02/23 12:06	06/02/23 12:06	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.385	1	06/02/23 12:06	06/02/23 12:06	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.263	1	06/02/23 12:06	06/02/23 12:06	75-00-3	
Chloroform	ND	ug/m3	0.973	0.349	1	06/02/23 12:06	06/02/23 12:06	67-66-3	
Chloromethane	1.77	ug/m3	0.413	0.213	1	06/02/23 12:06	06/02/23 12:06	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.427	1	06/02/23 12:06	06/02/23 12:06	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.259	1	06/02/23 12:06	06/02/23 12:06	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.618	1	06/02/23 12:06	06/02/23 12:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.554	1	06/02/23 12:06	06/02/23 12:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.770	1	06/02/23 12:06	06/02/23 12:06	95-50-1	
1,3-Dichlorobenzene	1.83	ug/m3	1.20	1.09	1	06/02/23 12:06	06/02/23 12:06	541-73-1	
1,4-Dichlorobenzene	2.51	ug/m3	1.20	0.335	1	06/02/23 12:06	06/02/23 12:06	106-46-7	L0
1,2-Dichloroethane	ND	ug/m3	0.810	0.283	1	06/02/23 12:06	06/02/23 12:06	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.290	1	06/02/23 12:06	06/02/23 12:06	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.302	1	06/02/23 12:06	06/02/23 12:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.311	1	06/02/23 12:06	06/02/23 12:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.267	1	06/02/23 12:06	06/02/23 12:06	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.351	1	06/02/23 12:06	06/02/23 12:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.313	1	06/02/23 12:06	06/02/23 12:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.331	1	06/02/23 12:06	06/02/23 12:06	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.300	1	06/02/23 12:06	06/02/23 12:06	123-91-1	
Ethanol	11.9	ug/m3	4.71	0.500	1	06/02/23 12:06	06/02/23 12:06	64-17-5	
Ethylbenzene	0.737J	ug/m3	0.867	0.362	1	06/02/23 12:06	06/02/23 12:06	100-41-4	J
Ethyl acetate	ND	ug/m3	0.720	0.360	1	06/02/23 12:06	06/02/23 12:06	141-78-6	
4-Ethyltoluene	ND	ug/m3	0.982	0.384	1	06/02/23 12:06	06/02/23 12:06	622-96-8	
Trichlorofluoromethane	1.44	ug/m3	1.12	0.460	1	06/02/23 12:06	06/02/23 12:06	75-69-4	
Dichlorodifluoromethane	2.90	ug/m3	0.989	0.678	1	06/02/23 12:06	06/02/23 12:06	75-71-8	
1,1,2-Trichlorotrifluoroethane	0.639J	ug/m3	1.53	0.608	1	06/02/23 12:06	06/02/23 12:06	76-13-1	J
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.622	1	06/02/23 12:06	06/02/23 12:06	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.425	1	06/02/23 12:06	06/02/23 12:06	142-82-5	
Hexachloro-1,3-butadiene	6.84	ug/m3	6.73	1.12	1	06/02/23 12:06	06/02/23 12:06	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.726	1	06/02/23 12:06	06/02/23 12:06	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.382	1	06/02/23 12:06	06/02/23 12:06	98-82-8	
Methylene Chloride	0.576J	ug/m3	0.694	0.340	1	06/02/23 12:06	06/02/23 12:06	75-09-2	J
2-Hexanone	1.43J	ug/m3	5.11	0.544	1	06/02/23 12:06	06/02/23 12:06	591-78-6	J

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ANALYTICAL RESULTS

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Sample: 001		Lab ID: 92669333001		Collected: 05/22/23 10:29		Received: 05/23/23 10:40		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (MS) TO-15		Analytical Method: TO-15 Preparation Method: TO-15 Pace National - Mt. Juliet							
2-Butanone (MEK)	6.10	ug/m3	3.69	0.240	1	06/02/23 12:06	06/02/23 12:06	78-93-3	
4-Methyl-2-pentanone (MIBK)	0.536J	ug/m3	5.12	0.313	1	06/02/23 12:06	06/02/23 12:06	108-10-1	J
Methyl methacrylate	ND	ug/m3	0.819	0.359	1	06/02/23 12:06	06/02/23 12:06	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.233	1	06/02/23 12:06	06/02/23 12:06	1634-04-4	
Naphthalene	ND	ug/m3	3.30	1.83	1	06/02/23 12:06	06/02/23 12:06	91-20-3	
2-Propanol	18.3	ug/m3	3.07	0.649	1	06/02/23 12:06	06/02/23 12:06	67-63-0	
Propylene	ND	ug/m3	2.15	0.160	1	06/02/23 12:06	06/02/23 12:06	115-07-1	
Styrene	ND	ug/m3	0.851	0.335	1	06/02/23 12:06	06/02/23 12:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.511	1	06/02/23 12:06	06/02/23 12:06	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.553	1	06/02/23 12:06	06/02/23 12:06	127-18-4	
Tetrahydrofuran	0.837	ug/m3	0.590	0.216	1	06/02/23 12:06	06/02/23 12:06	109-99-9	
Toluene	1.59J	ug/m3	1.88	0.328	1	06/02/23 12:06	06/02/23 12:06	108-88-3	J
1,2,4-Trichlorobenzene	2.81J	ug/m3	4.66	1.10	1	06/02/23 12:06	06/02/23 12:06	120-82-1	J
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.400	1	06/02/23 12:06	06/02/23 12:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.422	1	06/02/23 12:06	06/02/23 12:06	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.364	1	06/02/23 12:06	06/02/23 12:06	79-01-6	
1,2,4-Trimethylbenzene	3.03	ug/m3	0.982	0.375	1	06/02/23 12:06	06/02/23 12:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.382	1	06/02/23 12:06	06/02/23 12:06	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.621	1	06/02/23 12:06	06/02/23 12:06	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.243	1	06/02/23 12:06	06/02/23 12:06	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.373	1	06/02/23 12:06	06/02/23 12:06	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.408	1	06/02/23 12:06	06/02/23 12:06	108-05-4	
m&p-Xylene	1.82	ug/m3	1.73	0.585	1	06/02/23 12:06	06/02/23 12:06	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.359	1	06/02/23 12:06	06/02/23 12:06	95-47-6	
Xylene (Total)	1.82J	ug/m3	2.61	0.586	1	06/02/23 12:06	06/02/23 12:06	1330-20-7	J
Surrogates									
4-Bromofluorobenzene (S)	95.0	%	60.0-140		1	06/02/23 12:06	06/02/23 12:06	460-00-4	

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QUALITY CONTROL DATA

Project: May 2023 24 hour sample
Pace Project No.: 92669333

QC Batch:	2070590	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	VOA (MS) TO-15
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92669333001

METHOD BLANK: R3933821-2 Matrix: Air

Associated Lab Samples: 92669333001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/m3	ND	2.97	1.39	06/02/23 10:02	
Acetonitrile	ug/m3	ND	8.39	0.395	06/02/23 10:02	
Allyl chloride	ug/m3	ND	0.626	0.357	06/02/23 10:02	
Benzene	ug/m3	ND	0.639	0.228	06/02/23 10:02	
Benzyl chloride	ug/m3	ND	1.04	0.311	06/02/23 10:02	
Bromodichloromethane	ug/m3	ND	1.34	0.471	06/02/23 10:02	
Bromoform	ug/m3	ND	6.21	0.757	06/02/23 10:02	
Bromomethane	ug/m3	ND	0.776	0.381	06/02/23 10:02	
1,3-Butadiene	ug/m3	ND	4.43	0.230	06/02/23 10:02	
Carbon disulfide	ug/m3	ND	0.622	0.317	06/02/23 10:02	
Carbon tetrachloride	ug/m3	ND	1.26	0.461	06/02/23 10:02	
Chlorobenzene	ug/m3	ND	0.924	0.385	06/02/23 10:02	
Chloroethane	ug/m3	ND	0.528	0.263	06/02/23 10:02	
Chloroform	ug/m3	ND	0.973	0.349	06/02/23 10:02	
Chloromethane	ug/m3	ND	0.413	0.213	06/02/23 10:02	
2-Chlorotoluene	ug/m3	ND	1.03	0.427	06/02/23 10:02	
Cyclohexane	ug/m3	ND	0.689	0.259	06/02/23 10:02	
Dibromochloromethane	ug/m3	ND	1.70	0.618	06/02/23 10:02	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.54	0.554	06/02/23 10:02	
1,2-Dichlorobenzene	ug/m3	ND	1.20	0.770	06/02/23 10:02	
1,3-Dichlorobenzene	ug/m3	ND	1.20	1.09	06/02/23 10:02	
1,4-Dichlorobenzene	ug/m3	ND	1.20	0.335	06/02/23 10:02	
1,2-Dichloroethane	ug/m3	ND	0.810	0.283	06/02/23 10:02	
1,1-Dichloroethane	ug/m3	ND	0.802	0.290	06/02/23 10:02	
1,1-Dichloroethene	ug/m3	ND	0.793	0.302	06/02/23 10:02	
cis-1,2-Dichloroethene	ug/m3	ND	0.793	0.311	06/02/23 10:02	
trans-1,2-Dichloroethene	ug/m3	ND	0.793	0.267	06/02/23 10:02	
1,2-Dichloropropane	ug/m3	ND	0.924	0.351	06/02/23 10:02	
cis-1,3-Dichloropropene	ug/m3	ND	0.908	0.313	06/02/23 10:02	
trans-1,3-Dichloropropene	ug/m3	ND	0.908	0.331	06/02/23 10:02	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	0.721	0.300	06/02/23 10:02	
Ethanol	ug/m3	ND	4.71	0.500	06/02/23 10:02	
Ethylbenzene	ug/m3	ND	0.867	0.362	06/02/23 10:02	
Ethyl acetate	ug/m3	ND	0.720	0.360	06/02/23 10:02	
4-Ethyltoluene	ug/m3	ND	0.982	0.384	06/02/23 10:02	
Trichlorofluoromethane	ug/m3	ND	1.12	0.460	06/02/23 10:02	
Dichlorodifluoromethane	ug/m3	ND	0.989	0.678	06/02/23 10:02	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.53	0.608	06/02/23 10:02	
Dichlorotetrafluoroethane	ug/m3	ND	1.40	0.622	06/02/23 10:02	
n-Heptane	ug/m3	ND	0.818	0.425	06/02/23 10:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: May 2023 24 hour sample

Pace Project No.: 92669333

METHOD BLANK: R3933821-2

Matrix: Air

Associated Lab Samples: 92669333001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/m3	ND	6.73	1.12	06/02/23 10:02	
n-Hexane	ug/m3	ND	2.22	0.726	06/02/23 10:02	
Isopropylbenzene (Cumene)	ug/m3	ND	0.983	0.382	06/02/23 10:02	
Methylene Chloride	ug/m3	ND	0.694	0.340	06/02/23 10:02	
2-Hexanone	ug/m3	ND	5.11	0.544	06/02/23 10:02	
2-Butanone (MEK)	ug/m3	ND	3.69	0.240	06/02/23 10:02	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	5.12	0.313	06/02/23 10:02	
Methyl methacrylate	ug/m3	ND	0.819	0.359	06/02/23 10:02	
Methyl-tert-butyl ether	ug/m3	ND	0.721	0.233	06/02/23 10:02	
Naphthalene	ug/m3	ND	3.30	1.83	06/02/23 10:02	
2-Propanol	ug/m3	ND	3.07	0.649	06/02/23 10:02	
Propylene	ug/m3	ND	2.15	0.160	06/02/23 10:02	
Styrene	ug/m3	ND	0.851	0.335	06/02/23 10:02	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.37	0.511	06/02/23 10:02	
Tetrachloroethene	ug/m3	ND	1.36	0.553	06/02/23 10:02	
Tetrahydrofuran	ug/m3	ND	0.590	0.216	06/02/23 10:02	
Toluene	ug/m3	ND	1.88	0.328	06/02/23 10:02	
1,2,4-Trichlorobenzene	ug/m3	ND	4.66	1.10	06/02/23 10:02	
1,1,1-Trichloroethane	ug/m3	ND	1.09	0.400	06/02/23 10:02	
1,1,2-Trichloroethane	ug/m3	ND	1.09	0.422	06/02/23 10:02	
Trichloroethene	ug/m3	ND	1.07	0.364	06/02/23 10:02	
1,2,4-Trimethylbenzene	ug/m3	ND	0.982	0.375	06/02/23 10:02	
1,3,5-Trimethylbenzene	ug/m3	ND	0.982	0.382	06/02/23 10:02	
2,2,4-Trimethylpentane	ug/m3	ND	0.934	0.621	06/02/23 10:02	
Vinyl chloride	ug/m3	ND	0.511	0.243	06/02/23 10:02	
Vinyl bromide	ug/m3	ND	0.875	0.373	06/02/23 10:02	
Vinyl acetate	ug/m3	ND	0.704	0.408	06/02/23 10:02	
m&p-Xylene	ug/m3	ND	1.73	0.585	06/02/23 10:02	
o-Xylene	ug/m3	ND	0.867	0.359	06/02/23 10:02	
Xylene (Total)	ug/m3	ND	2.61	0.586	06/02/23 10:02	
4-Bromofluorobenzene (S)	%	92.7	60.0-140		06/02/23 10:02	

LABORATORY CONTROL SAMPLE & LCSD: R3933821-1

R3933821-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/m3	8.91	8.91	8.98	100	101	70.0-130	0.797	25	
Acetonitrile	ug/m3	31.6	32.6	32.2	103	102	70.0-130	1.04	25	
Allyl chloride	ug/m3	11.7	13.4	12.4	114	106	70.0-130	8.00	25	
Benzene	ug/m3	12.0	14.2	14.4	119	120	70.0-130	0.893	25	
Benzyl chloride	ug/m3	19.5	22.6	22.9	116	118	70.0-152	1.37	25	
Bromodichloromethane	ug/m3	25.2	29.4	30.6	117	122	70.0-130	4.03	25	
Bromoform	ug/m3	38.8	45.1	45.4	116	117	70.0-130	0.686	25	
Bromomethane	ug/m3	14.6	16.1	15.9	111	109	70.0-130	1.45	25	
1,3-Butadiene	ug/m3	8.30	8.74	8.41	105	101	70.0-130	3.87	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: May 2023 24 hour sample

Pace Project No.: 92669333

LABORATORY CONTROL SAMPLE & LCSD: R3933821-1			R3933821-3								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Carbon disulfide	ug/m3	11.7	13.7	13.6	117	117	70.0-130	0.457	25		
Carbon tetrachloride	ug/m3	23.6	29.0	29.1	123	123	70.0-130	0.217	25		
Chlorobenzene	ug/m3	17.3	20.9	21.2	121	122	70.0-130	1.32	25		
Chloroethane	ug/m3	9.89	10.9	11.0	110	111	70.0-130	0.966	25		
Chloroform	ug/m3	18.3	21.6	21.7	118	119	70.0-130	0.225	25		
Chloromethane	ug/m3	7.75	8.86	8.47	114	109	70.0-130	4.53	25		
2-Chlorotoluene	ug/m3	19.3	24.6	25.0	127	129	70.0-130	1.45	25		
Cyclohexane	ug/m3	12.9	15.0	15.3	117	118	70.0-130	1.36	25		
Dibromochloromethane	ug/m3	31.9	39.0	39.5	122	124	70.0-130	1.08	25		
1,2-Dibromoethane (EDB)	ug/m3	28.8	35.1	35.2	122	122	70.0-130	0.219	25		
1,2-Dichlorobenzene	ug/m3	22.5	27.8	28.3	123	125	70.0-130	1.50	25		
1,3-Dichlorobenzene	ug/m3	22.5	28.6	29.2	127	129	70.0-130	1.87	25		
1,4-Dichlorobenzene	ug/m3	22.5	28.9	29.6	128	131	70.0-130	2.67	25	L0	
1,2-Dichloroethane	ug/m3	15.2	17.9	18.3	118	120	70.0-130	1.79	25		
1,1-Dichloroethane	ug/m3	15.0	17.4	17.1	116	114	70.0-130	1.86	25		
1,1-Dichloroethene	ug/m3	14.9	17.0	16.9	114	114	70.0-130	0.467	25		
cis-1,2-Dichloroethene	ug/m3	14.9	16.4	15.8	110	106	70.0-130	3.45	25		
trans-1,2-Dichloroethene	ug/m3	14.9	17.0	17.1	115	115	70.0-130	0.464	25		
1,2-Dichloropropane	ug/m3	17.3	19.3	19.7	111	114	70.0-130	2.14	25		
cis-1,3-Dichloropropene	ug/m3	17.0	19.4	20.2	114	119	70.0-130	3.89	25		
trans-1,3-Dichloropropene	ug/m3	17.0	19.7	19.9	115	117	70.0-130	1.38	25		
1,4-Dioxane (p-Dioxane)	ug/m3	13.5	16.6	16.6	123	123	70.0-140	0.00	25		
Ethanol	ug/m3	7.07	6.37	6.98	90.1	98.7	55.0-148	9.04	25		
Ethylbenzene	ug/m3	16.3	19.8	19.8	122	122	70.0-130	0.00	25		
Ethyl acetate	ug/m3	13.5	14.0	14.1	104	105	70.0-130	0.512	25		
4-Ethyltoluene	ug/m3	18.4	22.4	23.2	122	126	70.0-130	3.66	25		
Trichlorofluoromethane	ug/m3	21.1	25.5	25.6	121	122	70.0-130	0.660	25		
Dichlorodifluoromethane	ug/m3	18.5	23.0	22.0	124	119	64.0-139	4.40	25		
1,1,2-Trichlorotrifluoroethane	ug/m3	28.7	34.9	35.6	121	124	70.0-130	2.17	25		
Dichlorotetrafluoroethane	ug/m3	26.2	32.5	31.1	124	119	70.0-130	4.40	25		
n-Heptane	ug/m3	15.3	18.2	18.7	119	122	70.0-130	2.66	25		
Hexachloro-1,3-butadiene	ug/m3	40.0	51.1	50.2	128	125	70.0-151	1.90	25		
n-Hexane	ug/m3	13.2	14.6	14.3	110	109	70.0-130	1.46	25		
Isopropylbenzene (Cumene)	ug/m3	18.4	22.8	22.9	124	124	70.0-130	0.215	25		
Methylene Chloride	ug/m3	13.0	14.4	14.0	110	108	70.0-130	2.44	25		
2-Hexanone	ug/m3	15.3	17.3	17.6	113	115	70.0-149	2.11	25		
2-Butanone (MEK)	ug/m3	11.1	12.6	12.5	114	113	70.0-130	1.18	25		
4-Methyl-2-pentanone (MIBK)	ug/m3	15.4	17.2	17.9	112	116	70.0-139	3.98	25		
Methyl methacrylate	ug/m3	15.4	16.5	16.3	107	106	70.0-130	0.749	25		
Methyl-tert-butyl ether	ug/m3	13.5	15.9	15.6	118	116	70.0-130	1.83	25		
Naphthalene	ug/m3	19.6	24.8	23.8	126	121	70.0-159	4.10	25		
2-Propanol	ug/m3	9.22	9.61	9.34	104	101	70.0-139	2.85	25		
Propylene	ug/m3	6.46	6.61	6.22	102	96.3	64.0-144	6.17	25		
Styrene	ug/m3	16.0	20.2	20.4	127	128	70.0-130	0.837	25		
1,1,2,2-Tetrachloroethane	ug/m3	25.8	29.1	29.9	113	116	70.0-130	2.80	25		
Tetrachloroethene	ug/m3	25.5	32.2	32.6	126	128	70.0-130	1.26	25		
Tetrahydrofuran	ug/m3	11.1	11.8	11.7	106	106	70.0-137	0.503	25		

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QUALITY CONTROL DATA

Project: May 2023 24 hour sample

Pace Project No.: 92669333

LABORATORY CONTROL SAMPLE & LCSD: R3933821-1			R3933821-3								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Toluene	ug/m3	14.1	17.2	17.3	122	122	70.0-130	0.437	25		
1,2,4-Trichlorobenzene	ug/m3	27.8	35.1	33.2	126	120	70.0-160	5.42	25		
1,1,1-Trichloroethane	ug/m3	20.4	24.9	24.6	122	121	70.0-130	0.879	25		
1,1,2-Trichloroethane	ug/m3	20.4	24.3	24.5	119	120	70.0-130	0.669	25		
Trichloroethene	ug/m3	20.1	24.1	24.2	120	120	70.0-130	0.222	25		
1,2,4-Trimethylbenzene	ug/m3	18.4	22.9	23.5	124	127	70.0-130	2.54	25		
1,3,5-Trimethylbenzene	ug/m3	18.4	23.9	23.8	130	129	70.0-130	0.412	25		
2,2,4-Trimethylpentane	ug/m3	17.5	20.3	19.8	116	113	70.0-130	2.57	25		
Vinyl chloride	ug/m3	9.59	10.6	10.2	110	107	70.0-130	3.20	25		
Vinyl bromide	ug/m3	16.4	18.9	19.2	115	117	70.0-130	1.60	25		
Vinyl acetate	ug/m3	13.2	15.9	15.8	121	119	70.0-130	0.889	25		
m&p-Xylene	ug/m3	32.5	40.3	40.6	124	125	70.0-130	0.857	25		
o-Xylene	ug/m3	16.3	19.6	19.9	121	123	70.0-130	1.75	25		
Xylene (Total)	ug/m3	49.1	59.9	60.8	122	124	70.0-130	1.44	25		
4-Bromofluorobenzene (S)	%				97.1	98.0	60.0-140				

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QUALIFIERS

Project: May 2023 24 hour sample

Pace Project No.: 92669333

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

LO Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: May 2023 24 hour sample

Pace Project No.: 92669333

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92669333001	001	TO-15	2070590	TO-15	2070590

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