

**ATTACHMENT 2
SAMPLING RESULTS
(APRIL 24-HOUR SAMPLE)**

April 27, 2022

Sam Hess
Bristol Solid Waste Management Facility
2125 Shakesville Rd
Bristol, VA 24201

RE: Project: CITY OF BRISTOL
Pace Project No.: 92600848

Dear Sam Hess:

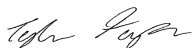
Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet

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

Sincerely,



Tyler Forney
tyler.forney@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Ms. Carrie Blankenship, Draper Aden Associates
David Cochran, City of Bristol VA
Ms. Janet Frazier, Draper Aden Associates
Zac Mitchell, City of Bristol, Virginia
Kathy Olsen, Draper Aden Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CITY OF BRISTOL

Pace Project No.: 92600848

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 Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

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: CITY OF BRISTOL

Pace Project No.: 92600848

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92600848001	APRIL 24-HR	Air	04/21/22 14:43	04/23/22 09:00

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SAMPLE ANALYTE COUNT

Project: CITY OF BRISTOL

Pace Project No.: 92600848

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92600848001	APRIL 24-HR	TO-15	DAH	68	PAN

PAN = Pace National - Mt. Juliet

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SUMMARY OF DETECTION

Project: CITY OF BRISTOL

Pace Project No.: 92600848

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92600848001	APRIL 24-HR					
TO-15	Acetone	14.4	ug/m3	2.97	04/26/22 17:08	
TO-15	Benzene	3.08	ug/m3	0.639	04/26/22 17:08	
TO-15	Chloromethane	1.59	ug/m3	0.413	04/26/22 17:08	
TO-15	Ethanol	5.60	ug/m3	2.36	04/26/22 17:08	
TO-15	Trichlorofluoromethane	1.53	ug/m3	1.12	04/26/22 17:08	
TO-15	Dichlorodifluoromethane	2.10	ug/m3	0.989	04/26/22 17:08	

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PROJECT NARRATIVE

Project: CITY OF BRISTOL

Pace Project No.: 92600848

Method: TO-15

Description: VOA (MS) TO-15

Client: Draper Aden - Virginia

Date: April 27, 2022

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.

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: CITY OF BRISTOL

Pace Project No.: 92600848

Sample: APRIL 24-HR		Lab ID: 92600848001		Collected: 04/21/22 14:43		Received: 04/23/22 09:00		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	14.4	ug/m3	2.97	0.5840	1	04/26/22 17:08	04/26/22 17:08	67-64-1	
Allyl chloride	ND	ug/m3	0.626	0.1140	1	04/26/22 17:08	04/26/22 17:08	107-05-1	
Benzene	3.08	ug/m3	0.639	0.0715	1	04/26/22 17:08	04/26/22 17:08	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.0598	1	04/26/22 17:08	04/26/22 17:08	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.0702	1	04/26/22 17:08	04/26/22 17:08	75-27-4	
Bromoform	ND	ug/m3	6.21	0.0732	1	04/26/22 17:08	04/26/22 17:08	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.0982	1	04/26/22 17:08	04/26/22 17:08	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.1040	1	04/26/22 17:08	04/26/22 17:08	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.1020	1	04/26/22 17:08	04/26/22 17:08	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.0732	1	04/26/22 17:08	04/26/22 17:08	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.0832	1	04/26/22 17:08	04/26/22 17:08	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.0996	1	04/26/22 17:08	04/26/22 17:08	75-00-3	
Chloroform	ND	ug/m3	0.973	0.0717	1	04/26/22 17:08	04/26/22 17:08	67-66-3	
Chloromethane	1.59	ug/m3	0.413	0.1030	1	04/26/22 17:08	04/26/22 17:08	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.0828	1	04/26/22 17:08	04/26/22 17:08	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.0753	1	04/26/22 17:08	04/26/22 17:08	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.0727	1	04/26/22 17:08	04/26/22 17:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.0721	1	04/26/22 17:08	04/26/22 17:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.1280	1	04/26/22 17:08	04/26/22 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	0.1820	1	04/26/22 17:08	04/26/22 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.0557	1	04/26/22 17:08	04/26/22 17:08	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.07	1	04/26/22 17:08	04/26/22 17:08	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.0723	1	04/26/22 17:08	04/26/22 17:08	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.0762	1	04/26/22 17:08	04/26/22 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.0784	1	04/26/22 17:08	04/26/22 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.0673	1	04/26/22 17:08	04/26/22 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.0760	1	04/26/22 17:08	04/26/22 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.0689	1	04/26/22 17:08	04/26/22 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.0728	1	04/26/22 17:08	04/26/22 17:08	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.0833	1	04/26/22 17:08	04/26/22 17:08	123-91-1	
Ethanol	5.60	ug/m3	2.36	0.2650	1	04/26/22 17:08	04/26/22 17:08	64-17-5	
Ethylbenzene	ND	ug/m3	0.867	0.0835	1	04/26/22 17:08	04/26/22 17:08	100-41-4	
4-Ethyltoluene	ND	ug/m3	0.982	0.0783	1	04/26/22 17:08	04/26/22 17:08	622-96-8	
Trichlorofluoromethane	1.53	ug/m3	1.12	0.0819	1	04/26/22 17:08	04/26/22 17:08	75-69-4	
Dichlorodifluoromethane	2.10	ug/m3	0.989	0.1370	1	04/26/22 17:08	04/26/22 17:08	75-71-8	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.53	0.0793	1	04/26/22 17:08	04/26/22 17:08	76-13-1	
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.0890	1	04/26/22 17:08	04/26/22 17:08	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.1040	1	04/26/22 17:08	04/26/22 17:08	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	0.1050	1	04/26/22 17:08	04/26/22 17:08	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.2060	1	04/26/22 17:08	04/26/22 17:08	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.0777	1	04/26/22 17:08	04/26/22 17:08	98-82-8	
Methylene Chloride	ND	ug/m3	0.694	0.0979	1	04/26/22 17:08	04/26/22 17:08	75-09-2	
2-Hexanone	ND	ug/m3	5.11	0.1330	1	04/26/22 17:08	04/26/22 17:08	591-78-6	
2-Butanone (MEK)	ND	ug/m3	3.69	0.0814	1	04/26/22 17:08	04/26/22 17:08	78-93-3	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.12	0.0765	1	04/26/22 17:08	04/26/22 17:08	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CITY OF BRISTOL

Pace Project No.: 92600848

Sample: APRIL 24-HR		Lab ID: 92600848001		Collected: 04/21/22 14:43		Received: 04/23/22 09:00		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							
Methyl methacrylate	ND	ug/m3	0.819	0.0876	1	04/26/22 17:08	04/26/22 17:08	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.0647	1	04/26/22 17:08	04/26/22 17:08	1634-04-4	
Naphthalene	ND	ug/m3	3.30	0.35	1	04/26/22 17:08	04/26/22 17:08	91-20-3	
2-Propanol	ND	ug/m3	3.07	0.2640	1	04/26/22 17:08	04/26/22 17:08	67-63-0	
Propylene	ND	ug/m3	2.15	0.0932	1	04/26/22 17:08	04/26/22 17:08	115-07-1	
Styrene	ND	ug/m3	0.851	0.0788	1	04/26/22 17:08	04/26/22 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.0743	1	04/26/22 17:08	04/26/22 17:08	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.0814	1	04/26/22 17:08	04/26/22 17:08	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.590	0.0734	1	04/26/22 17:08	04/26/22 17:08	109-99-9	
Toluene	ND	ug/m3	1.88	0.0870	1	04/26/22 17:08	04/26/22 17:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	0.1480	1	04/26/22 17:08	04/26/22 17:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.0736	1	04/26/22 17:08	04/26/22 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.0775	1	04/26/22 17:08	04/26/22 17:08	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.0680	1	04/26/22 17:08	04/26/22 17:08	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.0764	1	04/26/22 17:08	04/26/22 17:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.0779	1	04/26/22 17:08	04/26/22 17:08	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.1330	1	04/26/22 17:08	04/26/22 17:08	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.0949	1	04/26/22 17:08	04/26/22 17:08	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.0852	1	04/26/22 17:08	04/26/22 17:08	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.1160	1	04/26/22 17:08	04/26/22 17:08	108-05-4	
m&p-Xylene	ND	ug/m3	1.73	0.1350	1	04/26/22 17:08	04/26/22 17:08	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.0828	1	04/26/22 17:08	04/26/22 17:08	95-47-6	
Surrogates									
1,4-Dichlorobenzene-d4 (IS)	98.0	%	60.0-140		1	04/26/22 17:08	04/26/22 17:08	3855-82-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL
Pace Project No.: 92600848

QC Batch:	1854445	Analysis Method:	TO-15
QC Batch Method:	M18-Mod/TO-15	Analysis Description:	VOA (MS) TO-15
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92600848001

METHOD BLANK: R3785414-1 Matrix: Air
Associated Lab Samples: 92600848001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ppbv	ND	1.25	0.584	04/26/22 10:18	
Allyl chloride	ppbv	ND	0.200	0.114	04/26/22 10:18	
Benzene	ppbv	ND	0.200	0.0715	04/26/22 10:18	
Benzyl chloride	ppbv	ND	0.200	0.0598	04/26/22 10:18	
Bromodichloromethane	ppbv	ND	0.200	0.0702	04/26/22 10:18	
Bromoform	ppbv	ND	0.600	0.0732	04/26/22 10:18	
Bromomethane	ppbv	ND	0.200	0.0982	04/26/22 10:18	
1,3-Butadiene	ppbv	ND	2.00	0.104	04/26/22 10:18	
Carbon disulfide	ppbv	ND	0.200	0.102	04/26/22 10:18	
Carbon tetrachloride	ppbv	ND	0.200	0.0732	04/26/22 10:18	
Chlorobenzene	ppbv	ND	0.200	0.0832	04/26/22 10:18	
Chloroethane	ppbv	ND	0.200	0.0996	04/26/22 10:18	
Chloroform	ppbv	ND	0.200	0.0717	04/26/22 10:18	
Chloromethane	ppbv	ND	0.200	0.103	04/26/22 10:18	
2-Chlorotoluene	ppbv	ND	0.200	0.0828	04/26/22 10:18	
Cyclohexane	ppbv	ND	0.200	0.0753	04/26/22 10:18	
Dibromochloromethane	ppbv	ND	0.200	0.0727	04/26/22 10:18	
1,2-Dibromoethane (EDB)	ppbv	ND	0.200	0.0721	04/26/22 10:18	
1,2-Dichlorobenzene	ppbv	ND	0.200	0.128	04/26/22 10:18	
1,3-Dichlorobenzene	ppbv	ND	0.200	0.182	04/26/22 10:18	
1,4-Dichlorobenzene	ppbv	ND	0.200	0.0557	04/26/22 10:18	
1,2-Dichloroethane	ppbv	ND	0.200	0.0700	04/26/22 10:18	
1,1-Dichloroethane	ppbv	ND	0.200	0.0723	04/26/22 10:18	
1,1-Dichloroethene	ppbv	ND	0.200	0.0762	04/26/22 10:18	
cis-1,2-Dichloroethene	ppbv	ND	0.200	0.0784	04/26/22 10:18	
trans-1,2-Dichloroethene	ppbv	ND	0.200	0.0673	04/26/22 10:18	
1,2-Dichloropropane	ppbv	ND	0.200	0.0760	04/26/22 10:18	
cis-1,3-Dichloropropene	ppbv	ND	0.200	0.0689	04/26/22 10:18	
trans-1,3-Dichloropropene	ppbv	ND	0.200	0.0728	04/26/22 10:18	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.200	0.0833	04/26/22 10:18	
Ethanol	ppbv	ND	1.25	0.265	04/26/22 10:18	
Ethylbenzene	ppbv	ND	0.200	0.0835	04/26/22 10:18	
4-Ethyltoluene	ppbv	ND	0.200	0.0783	04/26/22 10:18	
Trichlorofluoromethane	ppbv	ND	0.200	0.0819	04/26/22 10:18	
Dichlorodifluoromethane	ppbv	ND	0.200	0.137	04/26/22 10:18	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.200	0.0793	04/26/22 10:18	
Dichlorotetrafluoroethane	ppbv	ND	0.200	0.0890	04/26/22 10:18	
n-Heptane	ppbv	ND	0.200	0.104	04/26/22 10:18	
Hexachloro-1,3-butadiene	ppbv	ND	0.630	0.105	04/26/22 10:18	
n-Hexane	ppbv	ND	0.630	0.206	04/26/22 10:18	

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

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL

Pace Project No.: 92600848

METHOD BLANK: R3785414-1

Matrix: Air

Associated Lab Samples: 92600848001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ppbv	ND	0.200	0.0777	04/26/22 10:18	
Methylene Chloride	ppbv	ND	0.200	0.0979	04/26/22 10:18	
2-Hexanone	ppbv	ND	1.25	0.133	04/26/22 10:18	
2-Butanone (MEK)	ppbv	ND	1.25	0.0814	04/26/22 10:18	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	1.25	0.0765	04/26/22 10:18	
Methyl methacrylate	ppbv	ND	0.200	0.0876	04/26/22 10:18	
Methyl-tert-butyl ether	ppbv	ND	0.200	0.0647	04/26/22 10:18	
Naphthalene	ppbv	ND	0.630	0.350	04/26/22 10:18	
2-Propanol	ppbv	ND	1.25	0.264	04/26/22 10:18	
Propylene	ppbv	ND	1.25	0.0932	04/26/22 10:18	
Styrene	ppbv	ND	0.200	0.0788	04/26/22 10:18	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.200	0.0743	04/26/22 10:18	
Tetrachloroethene	ppbv	ND	0.200	0.0814	04/26/22 10:18	
Tetrahydrofuran	ppbv	ND	0.200	0.0734	04/26/22 10:18	
Toluene	ppbv	ND	0.500	0.0870	04/26/22 10:18	
1,2,4-Trichlorobenzene	ppbv	ND	0.630	0.148	04/26/22 10:18	
1,1,1-Trichloroethane	ppbv	ND	0.200	0.0736	04/26/22 10:18	
1,1,2-Trichloroethane	ppbv	ND	0.200	0.0775	04/26/22 10:18	
Trichloroethene	ppbv	ND	0.200	0.0680	04/26/22 10:18	
1,2,4-Trimethylbenzene	ppbv	ND	0.200	0.0764	04/26/22 10:18	
1,3,5-Trimethylbenzene	ppbv	ND	0.200	0.0779	04/26/22 10:18	
2,2,4-Trimethylpentane	ppbv	ND	0.200	0.133	04/26/22 10:18	
Vinyl chloride	ppbv	ND	0.200	0.0949	04/26/22 10:18	
Vinyl bromide	ppbv	ND	0.200	0.0852	04/26/22 10:18	
Vinyl acetate	ppbv	ND	0.200	0.116	04/26/22 10:18	
m&p-Xylene	ppbv	ND	0.400	0.135	04/26/22 10:18	
o-Xylene	ppbv	ND	0.200	0.0828	04/26/22 10:18	
1,4-Dichlorobenzene-d4 (IS)	%	97.5	60.0-140		04/26/22 10:18	

LABORATORY CONTROL SAMPLE & LCSD: R3785414-2

R3785414-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ppbv	3.75	4.42	4.43	118	118	70.0-130	0.226	25	
Allyl chloride	ppbv	3.75	4.62	4.01	123	107	70.0-130	14.1	25	
Benzene	ppbv	3.75	4.58	4.45	122	119	70.0-130	2.88	25	
Benzyl chloride	ppbv	3.75	4.27	4.37	114	117	70.0-152	2.31	25	
Bromodichloromethane	ppbv	3.75	4.38	4.36	117	116	70.0-130	0.458	25	
Bromoform	ppbv	3.75	4.47	4.38	119	117	70.0-130	2.03	25	
Bromomethane	ppbv	3.75	4.68	4.72	125	126	70.0-130	0.851	25	
1,3-Butadiene	ppbv	3.75	4.50	4.60	120	123	70.0-130	2.20	25	
Carbon disulfide	ppbv	3.75	4.59	4.65	122	124	70.0-130	1.30	25	
Carbon tetrachloride	ppbv	3.75	4.39	4.24	117	113	70.0-130	3.48	25	
Chlorobenzene	ppbv	3.75	4.51	4.49	120	120	70.0-130	0.444	25	
Chloroethane	ppbv	3.75	4.68	4.66	125	124	70.0-130	0.428	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL

Pace Project No.: 92600848

LABORATORY CONTROL SAMPLE & LCSD: R3785414-2			R3785414-3							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ppbv	3.75	4.44	4.44	118	118	70.0-130	0.00	25	
Chloromethane	ppbv	3.75	4.65	4.64	124	124	70.0-130	0.215	25	
2-Chlorotoluene	ppbv	3.75	4.42	4.45	118	119	70.0-130	0.676	25	
Cyclohexane	ppbv	3.75	4.50	4.56	120	122	70.0-130	1.32	25	
Dibromochloromethane	ppbv	3.75	4.37	4.39	117	117	70.0-130	0.457	25	
1,2-Dibromoethane (EDB)	ppbv	3.75	4.60	4.54	123	121	70.0-130	1.31	25	
1,2-Dichlorobenzene	ppbv	3.75	4.22	4.30	113	115	70.0-130	1.88	25	
1,3-Dichlorobenzene	ppbv	3.75	4.29	4.39	114	117	70.0-130	2.30	25	
1,4-Dichlorobenzene	ppbv	3.75	4.29	4.32	114	115	70.0-130	0.697	25	
1,2-Dichloroethane	ppbv	3.75	4.68	4.52	125	121	70.0-130	3.48	25	
1,1-Dichloroethane	ppbv	3.75	4.67	4.40	125	117	70.0-130	5.95	25	
1,1-Dichloroethene	ppbv	3.75	4.71	4.42	126	118	70.0-130	6.35	25	
cis-1,2-Dichloroethene	ppbv	3.75	4.55	4.42	121	118	70.0-130	2.90	25	
trans-1,2-Dichloroethene	ppbv	3.75	4.57	4.50	122	120	70.0-130	1.54	25	
1,2-Dichloropropane	ppbv	3.75	4.73	4.67	126	125	70.0-130	1.28	25	
cis-1,3-Dichloropropene	ppbv	3.75	4.49	4.49	120	120	70.0-130	0.00	25	
trans-1,3-Dichloropropene	ppbv	3.75	4.55	4.54	121	121	70.0-130	0.220	25	
1,4-Dioxane (p-Dioxane)	ppbv	3.75	4.67	4.35	125	116	70.0-140	7.10	25	
Ethanol	ppbv	3.75	4.54	4.53	121	121	55.0-148	0.221	25	
Ethylbenzene	ppbv	3.75	4.50	4.48	120	119	70.0-130	0.445	25	
4-Ethyltoluene	ppbv	3.75	4.43	4.53	118	121	70.0-130	2.23	25	
Trichlorofluoromethane	ppbv	3.75	4.43	4.32	118	115	70.0-130	2.51	25	
Dichlorodifluoromethane	ppbv	3.75	3.85	3.82	103	102	64.0-139	0.782	25	
1,1,2-Trichlorotrifluoroethane	ppbv	3.75	4.50	4.39	120	117	70.0-130	2.47	25	
Dichlorotetrafluoroethane	ppbv	3.75	4.59	4.57	122	122	70.0-130	0.437	25	
n-Heptane	ppbv	3.75	4.41	4.67	118	125	70.0-130	5.73	25	
Hexachloro-1,3-butadiene	ppbv	3.75	4.43	4.41	118	118	70.0-151	0.452	25	
n-Hexane	ppbv	3.75	4.59	4.52	122	121	70.0-130	1.54	25	
Isopropylbenzene (Cumene)	ppbv	3.75	4.40	4.45	117	119	70.0-130	1.13	25	
Methylene Chloride	ppbv	3.75	4.63	4.76	123	127	70.0-130	2.77	25	
2-Hexanone	ppbv	3.75	4.94	4.62	132	123	70.0-149	6.69	25	
2-Butanone (MEK)	ppbv	3.75	4.58	4.68	122	125	70.0-130	2.16	25	
4-Methyl-2-pentanone (MIBK)	ppbv	3.75	4.80	4.68	128	125	70.0-139	2.53	25	
Methyl methacrylate	ppbv	3.75	4.54	4.53	121	121	70.0-130	0.221	25	
Methyl-tert-butyl ether	ppbv	3.75	4.44	4.43	118	118	70.0-130	0.225	25	
Naphthalene	ppbv	3.75	4.42	4.43	118	118	70.0-159	0.226	25	
2-Propanol	ppbv	3.75	4.65	4.49	124	120	70.0-139	3.50	25	
Propylene	ppbv	3.75	4.55	4.49	121	120	64.0-144	1.33	25	
Styrene	ppbv	3.75	4.54	4.53	121	121	70.0-130	0.221	25	
1,1,2,2-Tetrachloroethane	ppbv	3.75	4.52	4.51	121	120	70.0-130	0.221	25	
Tetrachloroethene	ppbv	3.75	4.48	4.49	119	120	70.0-130	0.223	25	
Tetrahydrofuran	ppbv	3.75	4.66	4.82	124	129	70.0-137	3.38	25	
Toluene	ppbv	3.75	4.53	4.47	121	119	70.0-130	1.33	25	
1,2,4-Trichlorobenzene	ppbv	3.75	4.30	4.40	115	117	70.0-160	2.30	25	
1,1,1-Trichloroethane	ppbv	3.75	4.50	4.48	120	119	70.0-130	0.445	25	
1,1,2-Trichloroethane	ppbv	3.75	4.38	4.40	117	117	70.0-130	0.456	25	
Trichloroethene	ppbv	3.75	4.54	4.44	121	118	70.0-130	2.23	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL

Pace Project No.: 92600848

LABORATORY CONTROL SAMPLE & LCSD: R3785414-2			R3785414-3							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ppbv	3.75	4.41	4.56	118	122	70.0-130	3.34	25	
1,3,5-Trimethylbenzene	ppbv	3.75	4.38	4.58	117	122	70.0-130	4.46	25	
2,2,4-Trimethylpentane	ppbv	3.75	4.49	4.58	120	122	70.0-130	1.98	25	
Vinyl chloride	ppbv	3.75	4.68	4.57	125	122	70.0-130	2.38	25	
Vinyl bromide	ppbv	3.75	4.48	4.43	119	118	70.0-130	1.12	25	
Vinyl acetate	ppbv	3.75	4.71	4.52	126	121	70.0-130	4.12	25	
m&p-Xylene	ppbv	7.50	8.98	8.91	120	119	70.0-130	0.783	25	
o-Xylene	ppbv	3.75	4.55	4.53	121	121	70.0-130	0.441	25	
1,4-Dichlorobenzene-d4 (IS)	%				99.0	98.6	60.0-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CITY OF BRISTOL

Pace Project No.: 92600848

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF BRISTOL

Pace Project No.: 92600848

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92600848001	APRIL 24-HR	TO-15	1854445	TO-15	1854445

REPORT OF LABORATORY ANALYSIS

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Company Name/Address:
Pace Analytical - Huntersville, NC

9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078

Billing Information:
Accounts Payable
9800 Kinsey Ave., Ste. 100
Huntersville, NC 28078

WO#: 92600848



92600848

Report To:
Tyler Forney

Email To:
Tyler.Forney@pacelabs.com

Project City of Bristol

City/State Collected:

BRISTOL, VA

Please Circle:
PT MT ET

Phone:
704-875-9092

Client Project #

Lab Project #

PACE-FORNEYVA

Collected by (print):

Site/Facility ID #

P.O. #

DAVE COCHRAN

Rush? (Lab MUST be notified)

Date Results Needed

DAVE COCHRAN

Same Day ☐ Three Day ☐
Next Day ☐ Five Day ☐
Two Day ☐

5/20/22

Collection

TO-15 Summa

Sample ID

Can #

Flow Cont. #

Date

Time

Initial

Final

X

APRIL 24-HR

0119916

4/21/22

2:43PM

28HG

0HG

Remarks:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Hold #

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

MR Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N If Applicable
COC Signed/Authenticated: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N
Bottles active/Intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient Volume sent: ☒ Y ☐ N
BTL checked for leaks: ☒ Y ☐ N

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

Tracking # 9504978235964

Hold #

Condition: (lab use only)

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

Received by: (Signature)

Date:

Time:

Condition:

(lab use only)

D058

Accum: PACE

Template: T184093

Prelogin: P912829

PM: 844 - Critical M Wagner

PR: CK 04/10/22

Shipped Via: FedEx Ground

Item/Contaminant Sample # (lab only)

Sample # (lab only)

Sample # (lab only)

Sample # (lab only)

Sample # (lab only)

Sample # (lab only)

Sample # (lab only)

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