

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

June 30, 2022

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

RE: Project: CITY OF BRISTOL VA
Pace Project No.: 92611776

Dear David Cochran:

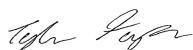
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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: Logan Howard, SCS Engineers
Mike Martin, City of Bristol VA
Ms. Jennifer Robb, SCS Engineers



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CITY OF BRISTOL VA
Pace Project No.: 92611776

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 VA

Pace Project No.: 92611776

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92611776001	JUNE 24HR SAMPLE #10438	Air	06/22/22 08:54	06/24/22 08:45

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SAMPLE ANALYTE COUNT

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92611776001	JUNE 24HR SAMPLE #10438	TO-15	DAH	68	PAN

PAN = Pace National - Mt. Juliet

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SUMMARY OF DETECTION

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92611776001	JUNE 24HR SAMPLE #10438					
TO-15	Acetone	27.1	ug/m3	2.97	06/28/22 17:33	
TO-15	Benzene	8.56	ug/m3	0.639	06/28/22 17:33	
TO-15	Chloromethane	1.72	ug/m3	0.413	06/28/22 17:33	
TO-15	Ethanol	12.0	ug/m3	2.36	06/28/22 17:33	
TO-15	Ethylbenzene	1.38	ug/m3	0.867	06/28/22 17:33	
TO-15	Trichlorofluoromethane	1.47	ug/m3	1.12	06/28/22 17:33	
TO-15	Dichlorodifluoromethane	2.74	ug/m3	0.989	06/28/22 17:33	
TO-15	Methylene Chloride	0.754	ug/m3	0.694	06/28/22 17:33	B
TO-15	2-Butanone (MEK)	4.45	ug/m3	3.69	06/28/22 17:33	
TO-15	Tetrahydrofuran	1.38	ug/m3	0.590	06/28/22 17:33	
TO-15	Toluene	1.96	ug/m3	1.88	06/28/22 17:33	

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PROJECT NARRATIVE

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

Method: TO-15

Description: VOA (MS) TO-15

Client: City of Bristol VA

Date: June 30, 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.

QC Batch: 1886581

B: Analyte was detected in the associated method blank.

- R3808717-3 (Lab ID: R3808717-3)
- Methylene Chloride

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 VA

Pace Project No.: 92611776

Sample: **JUNE 24HR SAMPLE** Lab ID: **92611776001** Collected: 06/22/22 08:54 Received: 06/24/22 08:45 Matrix: Air
#10438

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	27.1	ug/m3	2.97	0.5840	1	06/28/22 17:33	06/28/22 17:33	67-64-1	
Allyl chloride	ND	ug/m3	0.626	0.1140	1	06/28/22 17:33	06/28/22 17:33	107-05-1	
Benzene	8.56	ug/m3	0.639	0.0715	1	06/28/22 17:33	06/28/22 17:33	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.0598	1	06/28/22 17:33	06/28/22 17:33	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.0702	1	06/28/22 17:33	06/28/22 17:33	75-27-4	
Bromoform	ND	ug/m3	6.21	0.0732	1	06/28/22 17:33	06/28/22 17:33	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.0982	1	06/28/22 17:33	06/28/22 17:33	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.1040	1	06/28/22 17:33	06/28/22 17:33	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.1020	1	06/28/22 17:33	06/28/22 17:33	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.0732	1	06/28/22 17:33	06/28/22 17:33	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.0832	1	06/28/22 17:33	06/28/22 17:33	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.0996	1	06/28/22 17:33	06/28/22 17:33	75-00-3	
Chloroform	ND	ug/m3	0.973	0.0717	1	06/28/22 17:33	06/28/22 17:33	67-66-3	
Chloromethane	1.72	ug/m3	0.413	0.1030	1	06/28/22 17:33	06/28/22 17:33	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.0828	1	06/28/22 17:33	06/28/22 17:33	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.0753	1	06/28/22 17:33	06/28/22 17:33	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.0727	1	06/28/22 17:33	06/28/22 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.0721	1	06/28/22 17:33	06/28/22 17:33	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.1280	1	06/28/22 17:33	06/28/22 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	0.1820	1	06/28/22 17:33	06/28/22 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.0557	1	06/28/22 17:33	06/28/22 17:33	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.07	1	06/28/22 17:33	06/28/22 17:33	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.0723	1	06/28/22 17:33	06/28/22 17:33	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.0762	1	06/28/22 17:33	06/28/22 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.0784	1	06/28/22 17:33	06/28/22 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.0673	1	06/28/22 17:33	06/28/22 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.0760	1	06/28/22 17:33	06/28/22 17:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.0689	1	06/28/22 17:33	06/28/22 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.0728	1	06/28/22 17:33	06/28/22 17:33	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.0833	1	06/28/22 17:33	06/28/22 17:33	123-91-1	
Ethanol	12.0	ug/m3	2.36	0.2650	1	06/28/22 17:33	06/28/22 17:33	64-17-5	
Ethylbenzene	1.38	ug/m3	0.867	0.0835	1	06/28/22 17:33	06/28/22 17:33	100-41-4	
4-Ethyltoluene	ND	ug/m3	0.982	0.0783	1	06/28/22 17:33	06/28/22 17:33	622-96-8	
Trichlorofluoromethane	1.47	ug/m3	1.12	0.0819	1	06/28/22 17:33	06/28/22 17:33	75-69-4	
Dichlorodifluoromethane	2.74	ug/m3	0.989	0.1370	1	06/28/22 17:33	06/28/22 17:33	75-71-8	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.53	0.0793	1	06/28/22 17:33	06/28/22 17:33	76-13-1	
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.0890	1	06/28/22 17:33	06/28/22 17:33	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.1040	1	06/28/22 17:33	06/28/22 17:33	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	0.1050	1	06/28/22 17:33	06/28/22 17:33	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.2060	1	06/28/22 17:33	06/28/22 17:33	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.0777	1	06/28/22 17:33	06/28/22 17:33	98-82-8	
Methylene Chloride	0.754	ug/m3	0.694	0.0979	1	06/28/22 17:33	06/28/22 17:33	75-09-2	B
2-Hexanone	ND	ug/m3	5.11	0.1330	1	06/28/22 17:33	06/28/22 17:33	591-78-6	
2-Butanone (MEK)	4.45	ug/m3	3.69	0.0814	1	06/28/22 17:33	06/28/22 17:33	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

Sample: JUNE 24HR SAMPLE **Lab ID:** 92611776001 **Collected:** 06/22/22 08:54 **Received:** 06/24/22 08:45 **Matrix:** Air
#10438

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									
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.12	0.0765	1	06/28/22 17:33	06/28/22 17:33	108-10-1	
Methyl methacrylate	ND	ug/m3	0.819	0.0876	1	06/28/22 17:33	06/28/22 17:33	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.0647	1	06/28/22 17:33	06/28/22 17:33	1634-04-4	
Naphthalene	ND	ug/m3	3.30	0.35	1	06/28/22 17:33	06/28/22 17:33	91-20-3	
2-Propanol	ND	ug/m3	3.07	0.2640	1	06/28/22 17:33	06/28/22 17:33	67-63-0	
Propylene	ND	ug/m3	2.15	0.0932	1	06/28/22 17:33	06/28/22 17:33	115-07-1	
Styrene	ND	ug/m3	0.851	0.0788	1	06/28/22 17:33	06/28/22 17:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.0743	1	06/28/22 17:33	06/28/22 17:33	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.0814	1	06/28/22 17:33	06/28/22 17:33	127-18-4	
Tetrahydrofuran	1.38	ug/m3	0.590	0.0734	1	06/28/22 17:33	06/28/22 17:33	109-99-9	
Toluene	1.96	ug/m3	1.88	0.0870	1	06/28/22 17:33	06/28/22 17:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	0.1480	1	06/28/22 17:33	06/28/22 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.0736	1	06/28/22 17:33	06/28/22 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.0775	1	06/28/22 17:33	06/28/22 17:33	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.0680	1	06/28/22 17:33	06/28/22 17:33	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.0764	1	06/28/22 17:33	06/28/22 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.0779	1	06/28/22 17:33	06/28/22 17:33	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.1330	1	06/28/22 17:33	06/28/22 17:33	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.0949	1	06/28/22 17:33	06/28/22 17:33	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.0852	1	06/28/22 17:33	06/28/22 17:33	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.1160	1	06/28/22 17:33	06/28/22 17:33	108-05-4	
m&p-Xylene	ND	ug/m3	1.73	0.1350	1	06/28/22 17:33	06/28/22 17:33	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.0828	1	06/28/22 17:33	06/28/22 17:33	95-47-6	
Surrogates									
1,4-Dichlorobenzene-d4 (IS)	96.4	%	60.0-140		1	06/28/22 17:33	06/28/22 17:33	3855-82-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL VA
Pace Project No.: 92611776

QC Batch: 1886581	Analysis Method: TO-15
QC Batch Method: TO-15	Analysis Description: VOA (MS) TO-15
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92611776001

METHOD BLANK: R3808717-3 Matrix: Air
Associated Lab Samples: 92611776001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ppbv	ND	1.25	0.584	06/28/22 09:36	
Allyl chloride	ppbv	ND	0.200	0.114	06/28/22 09:36	
Benzene	ppbv	ND	0.200	0.0715	06/28/22 09:36	
Benzyl chloride	ppbv	ND	0.200	0.0598	06/28/22 09:36	
Bromodichloromethane	ppbv	ND	0.200	0.0702	06/28/22 09:36	
Bromoform	ppbv	ND	0.600	0.0732	06/28/22 09:36	
Bromomethane	ppbv	ND	0.200	0.0982	06/28/22 09:36	
1,3-Butadiene	ppbv	ND	2.00	0.104	06/28/22 09:36	
Carbon disulfide	ppbv	ND	0.200	0.102	06/28/22 09:36	
Carbon tetrachloride	ppbv	ND	0.200	0.0732	06/28/22 09:36	
Chlorobenzene	ppbv	ND	0.200	0.0832	06/28/22 09:36	
Chloroethane	ppbv	ND	0.200	0.0996	06/28/22 09:36	
Chloroform	ppbv	ND	0.200	0.0717	06/28/22 09:36	
Chloromethane	ppbv	ND	0.200	0.103	06/28/22 09:36	
2-Chlorotoluene	ppbv	ND	0.200	0.0828	06/28/22 09:36	
Cyclohexane	ppbv	ND	0.200	0.0753	06/28/22 09:36	
Dibromochloromethane	ppbv	ND	0.200	0.0727	06/28/22 09:36	
1,2-Dibromoethane (EDB)	ppbv	ND	0.200	0.0721	06/28/22 09:36	
1,2-Dichlorobenzene	ppbv	ND	0.200	0.128	06/28/22 09:36	
1,3-Dichlorobenzene	ppbv	ND	0.200	0.182	06/28/22 09:36	
1,4-Dichlorobenzene	ppbv	ND	0.200	0.0557	06/28/22 09:36	
1,2-Dichloroethane	ppbv	ND	0.200	0.0700	06/28/22 09:36	
1,1-Dichloroethane	ppbv	ND	0.200	0.0723	06/28/22 09:36	
1,1-Dichloroethene	ppbv	ND	0.200	0.0762	06/28/22 09:36	
cis-1,2-Dichloroethene	ppbv	ND	0.200	0.0784	06/28/22 09:36	
trans-1,2-Dichloroethene	ppbv	ND	0.200	0.0673	06/28/22 09:36	
1,2-Dichloropropane	ppbv	ND	0.200	0.0760	06/28/22 09:36	
cis-1,3-Dichloropropene	ppbv	ND	0.200	0.0689	06/28/22 09:36	
trans-1,3-Dichloropropene	ppbv	ND	0.200	0.0728	06/28/22 09:36	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.200	0.0833	06/28/22 09:36	
Ethanol	ppbv	ND	1.25	0.265	06/28/22 09:36	
Ethylbenzene	ppbv	ND	0.200	0.0835	06/28/22 09:36	
4-Ethyltoluene	ppbv	ND	0.200	0.0783	06/28/22 09:36	
Trichlorofluoromethane	ppbv	ND	0.200	0.0819	06/28/22 09:36	
Dichlorodifluoromethane	ppbv	ND	0.200	0.137	06/28/22 09:36	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.200	0.0793	06/28/22 09:36	
Dichlorotetrafluoroethane	ppbv	ND	0.200	0.0890	06/28/22 09:36	
n-Heptane	ppbv	ND	0.200	0.104	06/28/22 09:36	
Hexachloro-1,3-butadiene	ppbv	ND	0.630	0.105	06/28/22 09:36	
n-Hexane	ppbv	ND	0.630	0.206	06/28/22 09:36	

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 VA
Pace Project No.: 92611776

METHOD BLANK: R3808717-3

Matrix: Air

Associated Lab Samples: 92611776001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ppbv	ND	0.200	0.0777	06/28/22 09:36	
Methylene Chloride	ppbv	0.106J	0.200	0.0979	06/28/22 09:36	J
2-Hexanone	ppbv	ND	1.25	0.133	06/28/22 09:36	
2-Butanone (MEK)	ppbv	ND	1.25	0.0814	06/28/22 09:36	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	1.25	0.0765	06/28/22 09:36	
Methyl methacrylate	ppbv	ND	0.200	0.0876	06/28/22 09:36	
Methyl-tert-butyl ether	ppbv	ND	0.200	0.0647	06/28/22 09:36	
Naphthalene	ppbv	ND	0.630	0.350	06/28/22 09:36	
2-Propanol	ppbv	ND	1.25	0.264	06/28/22 09:36	
Propylene	ppbv	0.180J	1.25	0.0932	06/28/22 09:36	J
Styrene	ppbv	ND	0.200	0.0788	06/28/22 09:36	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.200	0.0743	06/28/22 09:36	
Tetrachloroethene	ppbv	ND	0.200	0.0814	06/28/22 09:36	
Tetrahydrofuran	ppbv	ND	0.200	0.0734	06/28/22 09:36	
Toluene	ppbv	ND	0.500	0.0870	06/28/22 09:36	
1,2,4-Trichlorobenzene	ppbv	ND	0.630	0.148	06/28/22 09:36	
1,1,1-Trichloroethane	ppbv	ND	0.200	0.0736	06/28/22 09:36	
1,1,2-Trichloroethane	ppbv	ND	0.200	0.0775	06/28/22 09:36	
Trichloroethene	ppbv	ND	0.200	0.0680	06/28/22 09:36	
1,2,4-Trimethylbenzene	ppbv	ND	0.200	0.0764	06/28/22 09:36	
1,3,5-Trimethylbenzene	ppbv	ND	0.200	0.0779	06/28/22 09:36	
2,2,4-Trimethylpentane	ppbv	ND	0.200	0.133	06/28/22 09:36	
Vinyl chloride	ppbv	ND	0.200	0.0949	06/28/22 09:36	
Vinyl bromide	ppbv	ND	0.200	0.0852	06/28/22 09:36	
Vinyl acetate	ppbv	ND	0.200	0.116	06/28/22 09:36	
m&p-Xylene	ppbv	ND	0.400	0.135	06/28/22 09:36	
o-Xylene	ppbv	ND	0.200	0.0828	06/28/22 09:36	
1,4-Dichlorobenzene-d4 (IS)	%	96	60.0-140		06/28/22 09:36	

LABORATORY CONTROL SAMPLE & LCSD: R3808717-1

R3808717-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ppbv	3.75	4.51	4.40	120	117	70.0-130	2.47	25	
Allyl chloride	ppbv	3.75	4.11	4.13	110	110	70.0-130	0.485	25	
Benzene	ppbv	3.75	3.93	3.97	105	106	70.0-130	1.01	25	
Benzyl chloride	ppbv	3.75	4.29	4.26	114	114	70.0-152	0.702	25	
Bromodichloromethane	ppbv	3.75	4.06	4.10	108	109	70.0-130	0.980	25	
Bromoform	ppbv	3.75	4.28	4.24	114	113	70.0-130	0.939	25	
Bromomethane	ppbv	3.75	4.07	4.13	109	110	70.0-130	1.46	25	
1,3-Butadiene	ppbv	3.75	4.01	3.98	107	106	70.0-130	0.751	25	
Carbon disulfide	ppbv	3.75	4.29	4.33	114	115	70.0-130	0.928	25	
Carbon tetrachloride	ppbv	3.75	4.09	4.11	109	110	70.0-130	0.488	25	
Chlorobenzene	ppbv	3.75	4.08	4.13	109	110	70.0-130	1.22	25	
Chloroethane	ppbv	3.75	4.02	4.05	107	108	70.0-130	0.743	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL VA
Pace Project No.: 92611776

LABORATORY CONTROL SAMPLE & LCSD: R3808717-1			R3808717-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ppbv	3.75	4.08	4.13	109	110	70.0-130	1.22	25	
Chloromethane	ppbv	3.75	4.01	4.03	107	107	70.0-130	0.498	25	
2-Chlorotoluene	ppbv	3.75	4.25	4.23	113	113	70.0-130	0.472	25	
Cyclohexane	ppbv	3.75	3.91	3.93	104	105	70.0-130	0.510	25	
Dibromochloromethane	ppbv	3.75	4.12	4.13	110	110	70.0-130	0.242	25	
1,2-Dibromoethane (EDB)	ppbv	3.75	4.14	4.20	110	112	70.0-130	1.44	25	
1,2-Dichlorobenzene	ppbv	3.75	4.02	3.97	107	106	70.0-130	1.25	25	
1,3-Dichlorobenzene	ppbv	3.75	4.14	4.17	110	111	70.0-130	0.722	25	
1,4-Dichlorobenzene	ppbv	3.75	4.21	4.25	112	113	70.0-130	0.946	25	
1,2-Dichloroethane	ppbv	3.75	4.11	4.10	110	109	70.0-130	0.244	25	
1,1-Dichloroethane	ppbv	3.75	3.99	4.01	106	107	70.0-130	0.500	25	
1,1-Dichloroethene	ppbv	3.75	4.23	4.24	113	113	70.0-130	0.236	25	
cis-1,2-Dichloroethene	ppbv	3.75	3.98	3.98	106	106	70.0-130	0.00	25	
trans-1,2-Dichloroethene	ppbv	3.75	4.22	4.20	113	112	70.0-130	0.475	25	
1,2-Dichloropropane	ppbv	3.75	3.91	3.94	104	105	70.0-130	0.764	25	
cis-1,3-Dichloropropene	ppbv	3.75	4.04	4.11	108	110	70.0-130	1.72	25	
trans-1,3-Dichloropropene	ppbv	3.75	4.07	4.10	109	109	70.0-130	0.734	25	
1,4-Dioxane (p-Dioxane)	ppbv	3.75	3.92	3.86	105	103	70.0-140	1.54	25	
Ethanol	ppbv	3.75	4.03	4.06	107	108	55.0-148	0.742	25	
Ethylbenzene	ppbv	3.75	4.16	4.16	111	111	70.0-130	0.00	25	
4-Ethyltoluene	ppbv	3.75	4.20	4.21	112	112	70.0-130	0.238	25	
Trichlorofluoromethane	ppbv	3.75	4.30	4.30	115	115	70.0-130	0.00	25	
Dichlorodifluoromethane	ppbv	3.75	4.27	4.26	114	114	64.0-139	0.234	25	
1,1,2-Trichlorotrifluoroethane	ppbv	3.75	4.25	4.29	113	114	70.0-130	0.937	25	
Dichlorotetrafluoroethane	ppbv	3.75	4.21	4.24	112	113	70.0-130	0.710	25	
n-Heptane	ppbv	3.75	4.13	4.19	110	112	70.0-130	1.44	25	
Hexachloro-1,3-butadiene	ppbv	3.75	3.70	3.72	98.7	99.2	70.0-151	0.539	25	
n-Hexane	ppbv	3.75	4.08	4.13	109	110	70.0-130	1.22	25	
Isopropylbenzene (Cumene)	ppbv	3.75	4.21	4.24	112	113	70.0-130	0.710	25	
Methylene Chloride	ppbv	3.75	3.75	3.81	100	102	70.0-130	1.59	25	
2-Hexanone	ppbv	3.75	3.93	3.96	105	106	70.0-149	0.760	25	
2-Butanone (MEK)	ppbv	3.75	3.87	3.91	103	104	70.0-130	1.03	25	
4-Methyl-2-pentanone (MIBK)	ppbv	3.75	4.14	4.24	110	113	70.0-139	2.39	25	
Methyl methacrylate	ppbv	3.75	4.00	3.95	107	105	70.0-130	1.26	25	
Methyl-tert-butyl ether	ppbv	3.75	4.01	4.02	107	107	70.0-130	0.249	25	
Naphthalene	ppbv	3.75	3.53	3.57	94.1	95.2	70.0-159	1.13	25	
2-Propanol	ppbv	3.75	4.15	4.11	111	110	70.0-139	0.969	25	
Propylene	ppbv	3.75	4.07	4.04	109	108	64.0-144	0.740	25	
Styrene	ppbv	3.75	4.14	4.18	110	111	70.0-130	0.962	25	
1,1,2,2-Tetrachloroethane	ppbv	3.75	4.17	4.13	111	110	70.0-130	0.964	25	
Tetrachloroethene	ppbv	3.75	4.05	4.13	108	110	70.0-130	1.96	25	
Tetrahydrofuran	ppbv	3.75	3.86	3.86	103	103	70.0-137	0.00	25	
Toluene	ppbv	3.75	4.06	4.13	108	110	70.0-130	1.71	25	
1,2,4-Trichlorobenzene	ppbv	3.75	3.33	3.40	88.8	90.7	70.0-160	2.08	25	
1,1,1-Trichloroethane	ppbv	3.75	4.14	4.16	110	111	70.0-130	0.482	25	
1,1,2-Trichloroethane	ppbv	3.75	4.04	4.09	108	109	70.0-130	1.23	25	
Trichloroethene	ppbv	3.75	4.07	4.11	109	110	70.0-130	0.978	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

LABORATORY CONTROL SAMPLE & LCSD: R3808717-1			R3808717-2							
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	4.27	4.32	114	115	70.0-130	1.16	25	
1,3,5-Trimethylbenzene	ppbv	3.75	4.21	4.19	112	112	70.0-130	0.476	25	
2,2,4-Trimethylpentane	ppbv	3.75	4.02	4.07	107	109	70.0-130	1.24	25	
Vinyl chloride	ppbv	3.75	4.07	4.13	109	110	70.0-130	1.46	25	
Vinyl bromide	ppbv	3.75	4.21	4.22	112	113	70.0-130	0.237	25	
Vinyl acetate	ppbv	3.75	4.11	4.15	110	111	70.0-130	0.969	25	
m&p-Xylene	ppbv	7.50	8.91	8.90	119	119	70.0-130	0.112	25	
o-Xylene	ppbv	3.75	4.31	4.33	115	115	70.0-130	0.463	25	
1,4-Dichlorobenzene-d4 (IS)	%				104	103	60.0-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CITY OF BRISTOL VA
Pace Project No.: 92611776

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

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF BRISTOL VA

Pace Project No.: 92611776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92611776001	JUNE 24HR SAMPLE #10438	TO-15	1886581	TO-15	1886581

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