ATTACHMENT 2
SAMPLING RESULTS
(MAY 24-HOUR SAMPLE)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 16, 2022

David Cochran
City of Bristol VA

,

RE: Project: CITY OF BRISTOL
Pace Project No.: 92604383

Dear David Cochran:

Enclosed are the analytical results for sample(s) received by the laboratory on May 12, 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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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CERTIFICATIONS

Project: CITY OF BRISTOL
Pace Project No.: 92604383

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.: 92604383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92604383001	**24HR SAMPLE**	Air	05/09/22 13:00	05/12/22 09:10

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92604383001	**24HR SAMPLE**	TO-15	DAH	68	PAN

PAN = Pace National - Mt. Juliet

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SUMMARY OF DETECTION

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92604383001	**24HR SAMPLE**					
TO-15	Acetone	9.17	ug/m3	2.97	05/15/22 16:02	
TO-15	Benzene	10.7	ug/m3	0.639	05/15/22 16:02	
TO-15	Chloromethane	1.35	ug/m3	0.413	05/15/22 16:02	
TO-15	Ethanol	19.8	ug/m3	2.36	05/15/22 16:02	
TO-15	Ethylbenzene	1.96	ug/m3	0.867	05/15/22 16:02	
TO-15	Trichlorofluoromethane	1.59	ug/m3	1.12	05/15/22 16:02	
TO-15	Dichlorodifluoromethane	2.72	ug/m3	0.989	05/15/22 16:02	
TO-15	Tetrahydrofuran	1.31	ug/m3	0.590	05/15/22 16:02	
TO-15	Toluene	2.01	ug/m3	1.88	05/15/22 16:02	
TO-15	m&p-Xylene	2.63	ug/m3	1.73	05/15/22 16:02	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Method: **TO-15**
Description: VOA (MS) TO-15
Client: Draper Aden - Virginia
Date: May 16, 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.

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ANALYTICAL RESULTS

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Sample: 24HR SAMPLE **Lab ID: 92604383001** Collected: 05/09/22 13:00 Received: 05/12/22 09:10 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	**9.17**	ug/m3	2.97	0.5840	1	05/15/22 16:02	05/15/22 16:02	67-64-1	
Allyl chloride	ND	ug/m3	0.626	0.1140	1	05/15/22 16:02	05/15/22 16:02	107-05-1	
Benzene	**10.7**	ug/m3	0.639	0.0715	1	05/15/22 16:02	05/15/22 16:02	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.0598	1	05/15/22 16:02	05/15/22 16:02	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.0702	1	05/15/22 16:02	05/15/22 16:02	75-27-4	
Bromoform	ND	ug/m3	6.21	0.0732	1	05/15/22 16:02	05/15/22 16:02	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.0982	1	05/15/22 16:02	05/15/22 16:02	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.1040	1	05/15/22 16:02	05/15/22 16:02	106-99-0	
Carbon disulfide	ND	ug/m3	0.622	0.1020	1	05/15/22 16:02	05/15/22 16:02	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.0732	1	05/15/22 16:02	05/15/22 16:02	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.0832	1	05/15/22 16:02	05/15/22 16:02	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.0996	1	05/15/22 16:02	05/15/22 16:02	75-00-3	
Chloroform	ND	ug/m3	0.973	0.0717	1	05/15/22 16:02	05/15/22 16:02	67-66-3	
Chloromethane	**1.35**	ug/m3	0.413	0.1030	1	05/15/22 16:02	05/15/22 16:02	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.0828	1	05/15/22 16:02	05/15/22 16:02	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.0753	1	05/15/22 16:02	05/15/22 16:02	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.0727	1	05/15/22 16:02	05/15/22 16:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.0721	1	05/15/22 16:02	05/15/22 16:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.1280	1	05/15/22 16:02	05/15/22 16:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	0.1820	1	05/15/22 16:02	05/15/22 16:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.0557	1	05/15/22 16:02	05/15/22 16:02	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.07	1	05/15/22 16:02	05/15/22 16:02	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.0723	1	05/15/22 16:02	05/15/22 16:02	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.0762	1	05/15/22 16:02	05/15/22 16:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.0784	1	05/15/22 16:02	05/15/22 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.0673	1	05/15/22 16:02	05/15/22 16:02	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.0760	1	05/15/22 16:02	05/15/22 16:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.0689	1	05/15/22 16:02	05/15/22 16:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.0728	1	05/15/22 16:02	05/15/22 16:02	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.721	0.0833	1	05/15/22 16:02	05/15/22 16:02	123-91-1	
Ethanol	**19.8**	ug/m3	2.36	0.2650	1	05/15/22 16:02	05/15/22 16:02	64-17-5	
Ethylbenzene	**1.96**	ug/m3	0.867	0.0835	1	05/15/22 16:02	05/15/22 16:02	100-41-4	
4-Ethyltoluene	ND	ug/m3	0.982	0.0783	1	05/15/22 16:02	05/15/22 16:02	622-96-8	
Trichlorofluoromethane	**1.59**	ug/m3	1.12	0.0819	1	05/15/22 16:02	05/15/22 16:02	75-69-4	
Dichlorodifluoromethane	**2.72**	ug/m3	0.989	0.1370	1	05/15/22 16:02	05/15/22 16:02	75-71-8	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.53	0.0793	1	05/15/22 16:02	05/15/22 16:02	76-13-1	
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.0890	1	05/15/22 16:02	05/15/22 16:02	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.1040	1	05/15/22 16:02	05/15/22 16:02	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	0.1050	1	05/15/22 16:02	05/15/22 16:02	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.2060	1	05/15/22 16:02	05/15/22 16:02	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.0777	1	05/15/22 16:02	05/15/22 16:02	98-82-8	
Methylene Chloride	ND	ug/m3	0.694	0.0979	1	05/15/22 16:02	05/15/22 16:02	75-09-2	
2-Hexanone	ND	ug/m3	5.11	0.1330	1	05/15/22 16:02	05/15/22 16:02	591-78-6	
2-Butanone (MEK)	ND	ug/m3	3.69	0.0814	1	05/15/22 16:02	05/15/22 16:02	78-93-3	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.12	0.0765	1	05/15/22 16:02	05/15/22 16:02	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Sample: 24HR SAMPLE **Lab ID: 92604383001** Collected: 05/09/22 13:00 Received: 05/12/22 09:10 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	05/15/22 16:02	05/15/22 16:02	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.0647	1	05/15/22 16:02	05/15/22 16:02	1634-04-4	
Naphthalene	ND	ug/m3	3.30	0.35	1	05/15/22 16:02	05/15/22 16:02	91-20-3	
2-Propanol	ND	ug/m3	3.07	0.2640	1	05/15/22 16:02	05/15/22 16:02	67-63-0	
Propylene	ND	ug/m3	2.15	0.0932	1	05/15/22 16:02	05/15/22 16:02	115-07-1	
Styrene	ND	ug/m3	0.851	0.0788	1	05/15/22 16:02	05/15/22 16:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.0743	1	05/15/22 16:02	05/15/22 16:02	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.0814	1	05/15/22 16:02	05/15/22 16:02	127-18-4	
Tetrahydrofuran	**1.31**	ug/m3	0.590	0.0734	1	05/15/22 16:02	05/15/22 16:02	109-99-9	
Toluene	**2.01**	ug/m3	1.88	0.0870	1	05/15/22 16:02	05/15/22 16:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	0.1480	1	05/15/22 16:02	05/15/22 16:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.0736	1	05/15/22 16:02	05/15/22 16:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.0775	1	05/15/22 16:02	05/15/22 16:02	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.0680	1	05/15/22 16:02	05/15/22 16:02	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.0764	1	05/15/22 16:02	05/15/22 16:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.0779	1	05/15/22 16:02	05/15/22 16:02	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.1330	1	05/15/22 16:02	05/15/22 16:02	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.0949	1	05/15/22 16:02	05/15/22 16:02	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.0852	1	05/15/22 16:02	05/15/22 16:02	593-60-2	
Vinyl acetate	ND	ug/m3	0.704	0.1160	1	05/15/22 16:02	05/15/22 16:02	108-05-4	
m&p-Xylene	**2.63**	ug/m3	1.73	0.1350	1	05/15/22 16:02	05/15/22 16:02	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.0828	1	05/15/22 16:02	05/15/22 16:02	95-47-6	
Surrogates									
1,4-Dichlorobenzene-d4 (IS)	99.3	%	60.0-140		1	05/15/22 16:02	05/15/22 16:02	3855-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: CITY OF BRISTOL
Pace Project No.: 92604383

QC Batch: 1864077
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: VOA (MS) TO-15
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92604383001

METHOD BLANK: R3792170-3 Matrix: Air
Associated Lab Samples: 92604383001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ppbv	ND	1.25	0.584	05/15/22 10:57	
Allyl chloride	ppbv	ND	0.200	0.114	05/15/22 10:57	
Benzene	ppbv	ND	0.200	0.0715	05/15/22 10:57	
Benzyl chloride	ppbv	ND	0.200	0.0598	05/15/22 10:57	
Bromodichloromethane	ppbv	ND	0.200	0.0702	05/15/22 10:57	
Bromoform	ppbv	ND	0.600	0.0732	05/15/22 10:57	
Bromomethane	ppbv	ND	0.200	0.0982	05/15/22 10:57	
1,3-Butadiene	ppbv	ND	2.00	0.104	05/15/22 10:57	
Carbon disulfide	ppbv	ND	0.200	0.102	05/15/22 10:57	
Carbon tetrachloride	ppbv	ND	0.200	0.0732	05/15/22 10:57	
Chlorobenzene	ppbv	ND	0.200	0.0832	05/15/22 10:57	
Chloroethane	ppbv	ND	0.200	0.0996	05/15/22 10:57	
Chloroform	ppbv	ND	0.200	0.0717	05/15/22 10:57	
Chloromethane	ppbv	ND	0.200	0.103	05/15/22 10:57	
2-Chlorotoluene	ppbv	ND	0.200	0.0828	05/15/22 10:57	
Cyclohexane	ppbv	ND	0.200	0.0753	05/15/22 10:57	
Dibromochloromethane	ppbv	ND	0.200	0.0727	05/15/22 10:57	
1,2-Dibromoethane (EDB)	ppbv	ND	0.200	0.0721	05/15/22 10:57	
1,2-Dichlorobenzene	ppbv	ND	0.200	0.128	05/15/22 10:57	
1,3-Dichlorobenzene	ppbv	ND	0.200	0.182	05/15/22 10:57	
1,4-Dichlorobenzene	ppbv	ND	0.200	0.0557	05/15/22 10:57	
1,2-Dichloroethane	ppbv	ND	0.200	0.0700	05/15/22 10:57	
1,1-Dichloroethane	ppbv	ND	0.200	0.0723	05/15/22 10:57	
1,1-Dichloroethene	ppbv	ND	0.200	0.0762	05/15/22 10:57	
cis-1,2-Dichloroethene	ppbv	ND	0.200	0.0784	05/15/22 10:57	
trans-1,2-Dichloroethene	ppbv	ND	0.200	0.0673	05/15/22 10:57	
1,2-Dichloropropane	ppbv	ND	0.200	0.0760	05/15/22 10:57	
cis-1,3-Dichloropropene	ppbv	ND	0.200	0.0689	05/15/22 10:57	
trans-1,3-Dichloropropene	ppbv	ND	0.200	0.0728	05/15/22 10:57	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.200	0.0833	05/15/22 10:57	
Ethanol	ppbv	ND	1.25	0.265	05/15/22 10:57	
Ethylbenzene	ppbv	ND	0.200	0.0835	05/15/22 10:57	
4-Ethyltoluene	ppbv	ND	0.200	0.0783	05/15/22 10:57	
Trichlorofluoromethane	ppbv	ND	0.200	0.0819	05/15/22 10:57	
Dichlorodifluoromethane	ppbv	ND	0.200	0.137	05/15/22 10:57	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.200	0.0793	05/15/22 10:57	
Dichlorotetrafluoroethane	ppbv	ND	0.200	0.0890	05/15/22 10:57	
n-Heptane	ppbv	ND	0.200	0.104	05/15/22 10:57	
Hexachloro-1,3-butadiene	ppbv	ND	0.630	0.105	05/15/22 10:57	
n-Hexane	ppbv	ND	0.630	0.206	05/15/22 10:57	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: CITY OF BRISTOL
Pace Project No.: 92604383

METHOD BLANK: R3792170-3 Matrix: Air
Associated Lab Samples: 92604383001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ppbv	ND	0.200	0.0777	05/15/22 10:57	
Methylene Chloride	ppbv	ND	0.200	0.0979	05/15/22 10:57	
2-Hexanone	ppbv	ND	1.25	0.133	05/15/22 10:57	
2-Butanone (MEK)	ppbv	ND	1.25	0.0814	05/15/22 10:57	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	1.25	0.0765	05/15/22 10:57	
Methyl methacrylate	ppbv	ND	0.200	0.0876	05/15/22 10:57	
Methyl-tert-butyl ether	ppbv	ND	0.200	0.0647	05/15/22 10:57	
Naphthalene	ppbv	ND	0.630	0.350	05/15/22 10:57	
2-Propanol	ppbv	ND	1.25	0.264	05/15/22 10:57	
Propylene	ppbv	0.304J	1.25	0.0932	05/15/22 10:57	J
Styrene	ppbv	ND	0.200	0.0788	05/15/22 10:57	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.200	0.0743	05/15/22 10:57	
Tetrachloroethene	ppbv	ND	0.200	0.0814	05/15/22 10:57	
Tetrahydrofuran	ppbv	ND	0.200	0.0734	05/15/22 10:57	
Toluene	ppbv	ND	0.500	0.0870	05/15/22 10:57	
1,2,4-Trichlorobenzene	ppbv	ND	0.630	0.148	05/15/22 10:57	
1,1,1-Trichloroethane	ppbv	ND	0.200	0.0736	05/15/22 10:57	
1,1,2-Trichloroethane	ppbv	ND	0.200	0.0775	05/15/22 10:57	
Trichloroethene	ppbv	ND	0.200	0.0680	05/15/22 10:57	
1,2,4-Trimethylbenzene	ppbv	ND	0.200	0.0764	05/15/22 10:57	
1,3,5-Trimethylbenzene	ppbv	ND	0.200	0.0779	05/15/22 10:57	
2,2,4-Trimethylpentane	ppbv	ND	0.200	0.133	05/15/22 10:57	
Vinyl chloride	ppbv	ND	0.200	0.0949	05/15/22 10:57	
Vinyl bromide	ppbv	ND	0.200	0.0852	05/15/22 10:57	
Vinyl acetate	ppbv	ND	0.200	0.116	05/15/22 10:57	
m&p-Xylene	ppbv	ND	0.400	0.135	05/15/22 10:57	
o-Xylene	ppbv	ND	0.200	0.0828	05/15/22 10:57	
1,4-Dichlorobenzene-d4 (IS)	%	96.9	60.0-140		05/15/22 10:57	

LABORATORY CONTROL SAMPLE & LCSD: R3792170-1 R3792170-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ppbv	3.75	3.56	3.55	94.9	94.7	70.0-130	0.281	25	
Allyl chloride	ppbv	3.75	3.42	3.38	91.2	90.1	70.0-130	1.18	25	
Benzene	ppbv	3.75	3.97	3.92	106	105	70.0-130	1.27	25	
Benzyl chloride	ppbv	3.75	4.12	4.09	110	109	70.0-152	0.731	25	
Bromodichloromethane	ppbv	3.75	4.00	3.91	107	104	70.0-130	2.28	25	
Bromoform	ppbv	3.75	4.14	4.10	110	109	70.0-130	0.971	25	
Bromomethane	ppbv	3.75	3.84	3.83	102	102	70.0-130	0.261	25	
1,3-Butadiene	ppbv	3.75	3.46	3.53	92.3	94.1	70.0-130	2.00	25	
Carbon disulfide	ppbv	3.75	3.73	3.72	99.5	99.2	70.0-130	0.268	25	
Carbon tetrachloride	ppbv	3.75	3.91	3.86	104	103	70.0-130	1.29	25	
Chlorobenzene	ppbv	3.75	4.12	4.05	110	108	70.0-130	1.71	25	
Chloroethane	ppbv	3.75	3.93	4.03	105	107	70.0-130	2.51	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CITY OF BRISTOL
Pace Project No.: 92604383

LABORATORY CONTROL SAMPLE & LCSD: R3792170-1 R3792170-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ppbv	3.75	3.88	3.87	103	103	70.0-130	0.258	25	
Chloromethane	ppbv	3.75	3.62	3.61	96.5	96.3	70.0-130	0.277	25	
2-Chlorotoluene	ppbv	3.75	4.01	4.00	107	107	70.0-130	0.250	25	
Cyclohexane	ppbv	3.75	3.85	3.86	103	103	70.0-130	0.259	25	
Dibromochloromethane	ppbv	3.75	4.12	4.03	110	107	70.0-130	2.21	25	
1,2-Dibromoethane (EDB)	ppbv	3.75	4.14	4.06	110	108	70.0-130	1.95	25	
1,2-Dichlorobenzene	ppbv	3.75	4.20	4.22	112	113	70.0-130	0.475	25	
1,3-Dichlorobenzene	ppbv	3.75	4.26	4.29	114	114	70.0-130	0.702	25	
1,4-Dichlorobenzene	ppbv	3.75	4.40	4.43	117	118	70.0-130	0.679	25	
1,2-Dichloroethane	ppbv	3.75	3.91	3.81	104	102	70.0-130	2.59	25	
1,1-Dichloroethane	ppbv	3.75	3.73	3.72	99.5	99.2	70.0-130	0.268	25	
1,1-Dichloroethene	ppbv	3.75	3.77	3.81	101	102	70.0-130	1.06	25	
cis-1,2-Dichloroethene	ppbv	3.75	3.43	3.38	91.5	90.1	70.0-130	1.47	25	
trans-1,2-Dichloroethene	ppbv	3.75	3.73	3.72	99.5	99.2	70.0-130	0.268	25	
1,2-Dichloropropane	ppbv	3.75	3.88	3.82	103	102	70.0-130	1.56	25	
cis-1,3-Dichloropropene	ppbv	3.75	3.98	3.85	106	103	70.0-130	3.32	25	
trans-1,3-Dichloropropene	ppbv	3.75	3.90	3.91	104	104	70.0-130	0.256	25	
1,4-Dioxane (p-Dioxane)	ppbv	3.75	3.78	3.94	101	105	70.0-140	4.15	25	
Ethanol	ppbv	3.75	4.03	3.95	107	105	55.0-148	2.01	25	
Ethylbenzene	ppbv	3.75	3.87	3.88	103	103	70.0-130	0.258	25	
4-Ethyltoluene	ppbv	3.75	4.00	4.05	107	108	70.0-130	1.24	25	
Trichlorofluoromethane	ppbv	3.75	4.05	4.08	108	109	70.0-130	0.738	25	
Dichlorodifluoromethane	ppbv	3.75	3.86	3.95	103	105	64.0-139	2.30	25	
1,1,2-Trichlorotrifluoroethane	ppbv	3.75	4.58	4.48	122	119	70.0-130	2.21	25	
Dichlorotetrafluoroethane	ppbv	3.75	3.98	4.03	106	107	70.0-130	1.25	25	
n-Heptane	ppbv	3.75	3.70	3.66	98.7	97.6	70.0-130	1.09	25	
Hexachloro-1,3-butadiene	ppbv	3.75	4.20	4.28	112	114	70.0-151	1.89	25	
n-Hexane	ppbv	3.75	3.70	3.61	98.7	96.3	70.0-130	2.46	25	
Isopropylbenzene (Cumene)	ppbv	3.75	3.89	3.89	104	104	70.0-130	0.00	25	
Methylene Chloride	ppbv	3.75	3.47	3.42	92.5	91.2	70.0-130	1.45	25	
2-Hexanone	ppbv	3.75	3.76	3.86	100	103	70.0-149	2.62	25	
2-Butanone (MEK)	ppbv	3.75	3.86	3.76	103	100	70.0-130	2.62	25	
4-Methyl-2-pentanone (MIBK)	ppbv	3.75	3.68	3.71	98.1	98.9	70.0-139	0.812	25	
Methyl methacrylate	ppbv	3.75	3.77	3.74	101	99.7	70.0-130	0.799	25	
Methyl-tert-butyl ether	ppbv	3.75	3.67	3.56	97.9	94.9	70.0-130	3.04	25	
Naphthalene	ppbv	3.75	4.25	4.36	113	116	70.0-159	2.56	25	
2-Propanol	ppbv	3.75	3.50	3.54	93.3	94.4	70.0-139	1.14	25	
Propylene	ppbv	3.75	3.56	3.66	94.9	97.6	64.0-144	2.77	25	
Styrene	ppbv	3.75	3.96	3.95	106	105	70.0-130	0.253	25	
1,1,2,2-Tetrachloroethane	ppbv	3.75	4.00	3.99	107	106	70.0-130	0.250	25	
Tetrachloroethene	ppbv	3.75	4.12	4.15	110	111	70.0-130	0.726	25	
Tetrahydrofuran	ppbv	3.75	3.45	3.42	92.0	91.2	70.0-137	0.873	25	
Toluene	ppbv	3.75	3.85	3.83	103	102	70.0-130	0.521	25	
1,2,4-Trichlorobenzene	ppbv	3.75	4.34	4.41	116	118	70.0-160	1.60	25	
1,1,1-Trichloroethane	ppbv	3.75	3.87	3.83	103	102	70.0-130	1.04	25	
1,1,2-Trichloroethane	ppbv	3.75	4.02	3.93	107	105	70.0-130	2.26	25	
Trichloroethene	ppbv	3.75	3.97	3.95	106	105	70.0-130	0.505	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CITY OF BRISTOL
Pace Project No.: 92604383

LABORATORY CONTROL SAMPLE & LCSD: R3792170-1 R3792170-2

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	4.00	4.00	107	107	70.0-130	0.00	25	
1,3,5-Trimethylbenzene	ppbv	3.75	3.98	4.01	106	107	70.0-130	0.751	25	
2,2,4-Trimethylpentane	ppbv	3.75	3.72	3.68	99.2	98.1	70.0-130	1.08	25	
Vinyl chloride	ppbv	3.75	3.89	3.94	104	105	70.0-130	1.28	25	
Vinyl bromide	ppbv	3.75	4.00	4.04	107	108	70.0-130	0.995	25	
Vinyl acetate	ppbv	3.75	3.47	3.43	92.5	91.5	70.0-130	1.16	25	
m&p-Xylene	ppbv	7.50	7.84	7.80	105	104	70.0-130	0.512	25	
o-Xylene	ppbv	3.75	3.87	3.84	103	102	70.0-130	0.778	25	
1,4-Dichlorobenzene-d4 (IS)	%				97.1	97.8	60.0-140			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CITY OF BRISTOL
Pace Project No.: 92604383

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.

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY OF BRISTOL
Pace Project No.: 92604383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92604383001	**24HR SAMPLE**	TO-15	1864077	TO-15	1864077

REPORT OF LABORATORY ANALYSIS

Company Name/Address:
Pace Analytical - Huntersville, NC

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078

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

WO# : 92604383

92604383

Analysis

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report To: **Tyler Forney**

Email To: Tyler.Forney@pacelabs.com

Project Description: City of Bristol

City/State Collected: Bristol VA

Please Circle: PT MT CT ET

SDG # L149289

L-181

Phone: 704-875-9092

Client Project #

Lab Project # PACE-FORNEYVA

Collected by (print): David Cochran

Site/Facility ID #

P.O. #

Acctnum: PACE
Template: T184093
Prelogin: P917190
PM: 844 - Christi M Wagner
PB:

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day

Date Results Needed

Shipped Via: FedEx Ground

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	TO-15 Summa				Rem./Contaminant	Sample # (lab only)
24hr Sample			5-9-22	1:00pm	28 Hg	5 Hg	X					01

Remarks:

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	5-11-22	7:18am			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) D. Ramsey	Date: 5-12-22	Time: 900

Condition: (lab use only) V

COC Seal Intact: ___Y ___N ___NA

NCF: