

**ATTACHMENT 3
SAMPLING RESULTS
JUNE 2024 (24-HOUR SAMPLE)**





June 14, 2024

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

RE: Project: City of Bristol
Pace Project No.: 92736303

Dear David Cochran:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2024. 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,

A handwritten signature in blue ink that reads "Eben D. Buchanan, Jr.".

Eben Buchanan
eben.buchanan@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Karen Culbertson, City of Bristol VA
Jonathan Hayes
Logan Howard, City of Bristol VA
Jennifer Robb, City of Bristol VA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: City of Bristol
Pace Project No.: 92736303

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.: 92736303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92736303001	June 24hr Sample	Air	06/11/24 10:00	06/12/24 09:00

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SAMPLE ANALYTE COUNT

Project: City of Bristol

Pace Project No.: 92736303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92736303001	June 24hr Sample	TO-15	GH	72	PAN

PAN = Pace National - Mt. Juliet

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: City of Bristol

Pace Project No.: 92736303

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92736303001	June 24hr Sample					
TO-15	Gasoline	410J	ug/m3	1030	06/12/24 21:00	B,J
TO-15	Acetone	10.9	ug/m3	2.97	06/12/24 21:00	
TO-15	Benzene	1.69	ug/m3	0.639	06/12/24 21:00	
TO-15	Chloromethane	0.998	ug/m3	0.413	06/12/24 21:00	
TO-15	Ethanol	9.43	ug/m3	4.71	06/12/24 21:00	
TO-15	Ethylbenzene	0.370J	ug/m3	0.867	06/12/24 21:00	J
TO-15	Trichlorofluoromethane	1.24	ug/m3	1.12	06/12/24 21:00	
TO-15	Dichlorodifluoromethane	2.27	ug/m3	0.989	06/12/24 21:00	
TO-15	Methylene Chloride	0.722	ug/m3	0.694	06/12/24 21:00	
TO-15	2-Butanone (MEK)	1.29J	ug/m3	3.69	06/12/24 21:00	J
TO-15	2-Propanol	1.53J	ug/m3	3.07	06/12/24 21:00	J
TO-15	Toluene	0.618J	ug/m3	1.88	06/12/24 21:00	J

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PROJECT NARRATIVE

Project: City of Bristol
Pace Project No.: 92736303

Method: TO-15
Description: VOA (MS) TO-15
Client: City of Bristol VA
Date: June 14, 2024

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: 2303838

B: Analyte was detected in the associated method blank.

- R4081512-3 (Lab ID: R4081512-3)
 - Gasoline

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.: 92736303

Sample: June 24hr Sample Lab ID: 92736303001 Collected: 06/11/24 10:00 Received: 06/12/24 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									
Gasoline	410J	ug/m3	1030	164	1	06/12/24 21:00	06/12/24 21:00	8006-61-9	B,J
Acetone	10.9	ug/m3	2.97	1.39	1	06/12/24 21:00	06/12/24 21:00	67-64-1	
Acetonitrile	ND	ug/m3	8.39	0.395	1	06/12/24 21:00	06/12/24 21:00	75-05-8	
Allyl chloride	ND	ug/m3	0.626	0.357	1	06/12/24 21:00	06/12/24 21:00	107-05-1	
Benzene	1.69	ug/m3	0.639	0.228	1	06/12/24 21:00	06/12/24 21:00	71-43-2	
Benzyl chloride	ND	ug/m3	1.04	0.311	1	06/12/24 21:00	06/12/24 21:00	100-44-7	
Bromodichloromethane	ND	ug/m3	1.34	0.471	1	06/12/24 21:00	06/12/24 21:00	75-27-4	
Bromoform	ND	ug/m3	6.21	0.757	1	06/12/24 21:00	06/12/24 21:00	75-25-2	
Bromomethane	ND	ug/m3	0.776	0.381	1	06/12/24 21:00	06/12/24 21:00	74-83-9	
1,3-Butadiene	ND	ug/m3	4.43	0.230	1	06/12/24 21:00	06/12/24 21:00	106-99-0	
Carbon disulfide	ND	ug/m3	1.24	0.317	1	06/12/24 21:00	06/12/24 21:00	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.26	0.461	1	06/12/24 21:00	06/12/24 21:00	56-23-5	
Chlorobenzene	ND	ug/m3	0.924	0.385	1	06/12/24 21:00	06/12/24 21:00	108-90-7	
Chloroethane	ND	ug/m3	0.528	0.263	1	06/12/24 21:00	06/12/24 21:00	75-00-3	
Chloroform	ND	ug/m3	0.973	0.349	1	06/12/24 21:00	06/12/24 21:00	67-66-3	
Chloromethane	0.998	ug/m3	0.413	0.213	1	06/12/24 21:00	06/12/24 21:00	74-87-3	
2-Chlorotoluene	ND	ug/m3	1.03	0.427	1	06/12/24 21:00	06/12/24 21:00	95-49-8	
Cyclohexane	ND	ug/m3	0.689	0.259	1	06/12/24 21:00	06/12/24 21:00	110-82-7	
Dibromochloromethane	ND	ug/m3	1.70	0.618	1	06/12/24 21:00	06/12/24 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.54	0.554	1	06/12/24 21:00	06/12/24 21:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.20	0.770	1	06/12/24 21:00	06/12/24 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.20	1.09	1	06/12/24 21:00	06/12/24 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.20	0.335	1	06/12/24 21:00	06/12/24 21:00	106-46-7	
1,2-Dichloroethane	ND	ug/m3	0.810	0.283	1	06/12/24 21:00	06/12/24 21:00	107-06-2	
1,1-Dichloroethane	ND	ug/m3	0.802	0.290	1	06/12/24 21:00	06/12/24 21:00	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.793	0.302	1	06/12/24 21:00	06/12/24 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.793	0.311	1	06/12/24 21:00	06/12/24 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.793	0.267	1	06/12/24 21:00	06/12/24 21:00	156-60-5	
1,2-Dichloropropane	ND	ug/m3	0.924	0.351	1	06/12/24 21:00	06/12/24 21:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	0.908	0.313	1	06/12/24 21:00	06/12/24 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	0.908	0.331	1	06/12/24 21:00	06/12/24 21:00	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2.27	0.300	1	06/12/24 21:00	06/12/24 21:00	123-91-1	
Ethanol	9.43	ug/m3	4.71	0.500	1	06/12/24 21:00	06/12/24 21:00	64-17-5	
Ethylbenzene	0.370J	ug/m3	0.867	0.362	1	06/12/24 21:00	06/12/24 21:00	100-41-4	J
Ethyl acetate	ND	ug/m3	2.27	0.360	1	06/12/24 21:00	06/12/24 21:00	141-78-6	
4-Ethyltoluene	ND	ug/m3	0.982	0.384	1	06/12/24 21:00	06/12/24 21:00	622-96-8	
Trichlorofluoromethane	1.24	ug/m3	1.12	0.460	1	06/12/24 21:00	06/12/24 21:00	75-69-4	
Dichlorodifluoromethane	2.27	ug/m3	0.989	0.678	1	06/12/24 21:00	06/12/24 21:00	75-71-8	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.53	0.608	1	06/12/24 21:00	06/12/24 21:00	76-13-1	
Dichlorotetrafluoroethane	ND	ug/m3	1.40	0.622	1	06/12/24 21:00	06/12/24 21:00	76-14-2	
n-Heptane	ND	ug/m3	0.818	0.425	1	06/12/24 21:00	06/12/24 21:00	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	6.73	1.12	1	06/12/24 21:00	06/12/24 21:00	87-68-3	
n-Hexane	ND	ug/m3	2.22	0.726	1	06/12/24 21:00	06/12/24 21:00	110-54-3	
Isopropylbenzene (Cumene)	ND	ug/m3	0.983	0.382	1	06/12/24 21:00	06/12/24 21:00	98-82-8	
Methylene Chloride	0.722	ug/m3	0.694	0.340	1	06/12/24 21:00	06/12/24 21:00	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of Bristol
Pace Project No.: 92736303

Sample: June 24hr Sample Lab ID: 92736303001 Collected: 06/11/24 10:00 Received: 06/12/24 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									
2-Hexanone	ND	ug/m3	5.11	0.544	1	06/12/24 21:00	06/12/24 21:00	591-78-6	
2-Butanone (MEK)	1.29J	ug/m3	3.69	0.240	1	06/12/24 21:00	06/12/24 21:00	78-93-3	J
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.12	0.313	1	06/12/24 21:00	06/12/24 21:00	108-10-1	
Methyl methacrylate	ND	ug/m3	0.819	0.359	1	06/12/24 21:00	06/12/24 21:00	80-62-6	
Methyl-tert-butyl ether	ND	ug/m3	0.721	0.233	1	06/12/24 21:00	06/12/24 21:00	1634-04-4	
Naphthalene	ND	ug/m3	3.30	1.83	1	06/12/24 21:00	06/12/24 21:00	91-20-3	
2-Propanol	1.53J	ug/m3	3.07	0.649	1	06/12/24 21:00	06/12/24 21:00	67-63-0	J
Propylene	ND	ug/m3	2.15	0.160	1	06/12/24 21:00	06/12/24 21:00	115-07-1	
Styrene	ND	ug/m3	1.70	0.335	1	06/12/24 21:00	06/12/24 21:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.37	0.511	1	06/12/24 21:00	06/12/24 21:00	79-34-5	
Tetrachloroethene	ND	ug/m3	1.36	0.553	1	06/12/24 21:00	06/12/24 21:00	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.590	0.216	1	06/12/24 21:00	06/12/24 21:00	109-99-9	
Toluene	0.618J	ug/m3	1.88	0.328	1	06/12/24 21:00	06/12/24 21:00	108-88-3	J
1,2,4-Trichlorobenzene	ND	ug/m3	4.66	1.10	1	06/12/24 21:00	06/12/24 21:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.09	0.400	1	06/12/24 21:00	06/12/24 21:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.09	0.422	1	06/12/24 21:00	06/12/24 21:00	79-00-5	
Trichloroethene	ND	ug/m3	1.07	0.364	1	06/12/24 21:00	06/12/24 21:00	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	0.982	0.375	1	06/12/24 21:00	06/12/24 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	0.982	0.382	1	06/12/24 21:00	06/12/24 21:00	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	0.934	0.621	1	06/12/24 21:00	06/12/24 21:00	540-84-1	
Vinyl chloride	ND	ug/m3	0.511	0.243	1	06/12/24 21:00	06/12/24 21:00	75-01-4	
Vinyl bromide	ND	ug/m3	0.875	0.373	1	06/12/24 21:00	06/12/24 21:00	593-60-2	
Vinyl acetate	ND	ug/m3	2.22	0.408	1	06/12/24 21:00	06/12/24 21:00	108-05-4	
m&p-Xylene	ND	ug/m3	1.73	0.585	1	06/12/24 21:00	06/12/24 21:00	179601-23-1	
o-Xylene	ND	ug/m3	0.867	0.359	1	06/12/24 21:00	06/12/24 21:00	95-47-6	
Xylene (Total)	ND	ug/m3	2.61	0.586	1	06/12/24 21:00	06/12/24 21:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91.4	%	60.0-140		1	06/12/24 21:00	06/12/24 21:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol
Pace Project No.: 92736303

QC Batch: 2303838 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: VOA (MS) TO-15
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92736303001

METHOD BLANK: R4081512-3 Matrix: Air
Associated Lab Samples: 92736303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gasoline	ug/m3	314J	1030	164	06/12/24 14:43	J
Acetone	ug/m3	ND	2.97	1.39	06/12/24 14:43	
Acetonitrile	ug/m3	0.599J	8.39	0.395	06/12/24 14:43	J
Allyl chloride	ug/m3	ND	0.626	0.357	06/12/24 14:43	
Benzene	ug/m3	ND	0.639	0.228	06/12/24 14:43	
Benzyl chloride	ug/m3	ND	1.04	0.311	06/12/24 14:43	
Bromodichloromethane	ug/m3	ND	1.34	0.471	06/12/24 14:43	
Bromoform	ug/m3	ND	6.21	0.757	06/12/24 14:43	
Bromomethane	ug/m3	ND	0.776	0.381	06/12/24 14:43	
1,3-Butadiene	ug/m3	ND	4.43	0.230	06/12/24 14:43	
Carbon disulfide	ug/m3	ND	1.24	0.317	06/12/24 14:43	
Carbon tetrachloride	ug/m3	ND	1.26	0.461	06/12/24 14:43	
Chlorobenzene	ug/m3	ND	0.924	0.385	06/12/24 14:43	
Chloroethane	ug/m3	ND	0.528	0.263	06/12/24 14:43	
Chloroform	ug/m3	ND	0.973	0.349	06/12/24 14:43	
Chloromethane	ug/m3	ND	0.413	0.213	06/12/24 14:43	
2-Chlorotoluene	ug/m3	ND	1.03	0.427	06/12/24 14:43	
Cyclohexane	ug/m3	ND	0.689	0.259	06/12/24 14:43	
Dibromochloromethane	ug/m3	ND	1.70	0.618	06/12/24 14:43	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.54	0.554	06/12/24 14:43	
1,2-Dichlorobenzene	ug/m3	ND	1.20	0.770	06/12/24 14:43	
1,3-Dichlorobenzene	ug/m3	ND	1.20	1.09	06/12/24 14:43	
1,4-Dichlorobenzene	ug/m3	ND	1.20	0.335	06/12/24 14:43	
1,2-Dichloroethane	ug/m3	ND	0.810	0.283	06/12/24 14:43	
1,1-Dichloroethane	ug/m3	ND	0.802	0.290	06/12/24 14:43	
1,1-Dichloroethene	ug/m3	ND	0.793	0.302	06/12/24 14:43	
cis-1,2-Dichloroethene	ug/m3	ND	0.793	0.311	06/12/24 14:43	
trans-1,2-Dichloroethene	ug/m3	ND	0.793	0.267	06/12/24 14:43	
1,2-Dichloropropane	ug/m3	ND	0.924	0.351	06/12/24 14:43	
cis-1,3-Dichloropropene	ug/m3	ND	0.908	0.313	06/12/24 14:43	
trans-1,3-Dichloropropene	ug/m3	ND	0.908	0.331	06/12/24 14:43	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	2.27	0.300	06/12/24 14:43	
Ethanol	ug/m3	ND	4.71	0.500	06/12/24 14:43	
Ethylbenzene	ug/m3	ND	0.867	0.362	06/12/24 14:43	
Ethyl acetate	ug/m3	ND	2.27	0.360	06/12/24 14:43	
4-Ethyltoluene	ug/m3	ND	0.982	0.384	06/12/24 14:43	
Trichlorofluoromethane	ug/m3	ND	1.12	0.460	06/12/24 14:43	
Dichlorodifluoromethane	ug/m3	ND	0.989	0.678	06/12/24 14:43	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.53	0.608	06/12/24 14:43	
Dichlorotetrafluoroethane	ug/m3	ND	1.40	0.622	06/12/24 14:43	

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.: 92736303

METHOD BLANK: R4081512-3
Associated Lab Samples: 92736303001

Matrix: Air

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
n-Heptane	ug/m3	ND	0.818	0.425	06/12/24 14:43	
Hexachloro-1,3-butadiene	ug/m3	ND	6.73	1.12	06/12/24 14:43	
n-Hexane	ug/m3	ND	2.22	0.726	06/12/24 14:43	
Isopropylbenzene (Cumene)	ug/m3	ND	0.983	0.382	06/12/24 14:43	
Methylene Chloride	ug/m3	ND	0.694	0.340	06/12/24 14:43	
2-Hexanone	ug/m3	ND	5.11	0.544	06/12/24 14:43	
2-Butanone (MEK)	ug/m3	ND	3.69	0.240	06/12/24 14:43	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	5.12	0.313	06/12/24 14:43	
Methyl methacrylate	ug/m3	ND	0.819	0.359	06/12/24 14:43	
Methyl-tert-butyl ether	ug/m3	ND	0.721	0.233	06/12/24 14:43	
Naphthalene	ug/m3	ND	3.30	1.83	06/12/24 14:43	
2-Propanol	ug/m3	ND	3.07	0.649	06/12/24 14:43	
Propylene	ug/m3	ND	2.15	0.160	06/12/24 14:43	
Styrene	ug/m3	ND	1.70	0.335	06/12/24 14:43	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.37	0.511	06/12/24 14:43	
Tetrachloroethene	ug/m3	ND	1.36	0.553	06/12/24 14:43	
Tetrahydrofuran	ug/m3	ND	0.590	0.216	06/12/24 14:43	
Toluene	ug/m3	ND	1.88	0.328	06/12/24 14:43	
1,2,4-Trichlorobenzene	ug/m3	ND	4.66	1.10	06/12/24 14:43	
1,1,1-Trichloroethane	ug/m3	ND	1.09	0.400	06/12/24 14:43	
1,1,2-Trichloroethane	ug/m3	ND	1.09	0.422	06/12/24 14:43	
Trichloroethene	ug/m3	ND	1.07	0.364	06/12/24 14:43	
1,2,4-Trimethylbenzene	ug/m3	ND	0.982	0.375	06/12/24 14:43	
1,3,5-Trimethylbenzene	ug/m3	ND	0.982	0.382	06/12/24 14:43	
2,2,4-Trimethylpentane	ug/m3	ND	0.934	0.621	06/12/24 14:43	
Vinyl chloride	ug/m3	ND	0.511	0.243	06/12/24 14:43	
Vinyl bromide	ug/m3	ND	0.875	0.373	06/12/24 14:43	
Vinyl acetate	ug/m3	ND	2.22	0.408	06/12/24 14:43	
m&p-Xylene	ug/m3	ND	1.73	0.585	06/12/24 14:43	
o-Xylene	ug/m3	ND	0.867	0.359	06/12/24 14:43	
Xylene (Total)	ug/m3	ND	2.61	0.586	06/12/24 14:43	
4-Bromofluorobenzene (S)	%	90.5	60.0-140		06/12/24 14:43	

LABORATORY CONTROL SAMPLE & LCSD: R4081512-1

R4081512-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline	ug/m3	349	1550	1460	107	101	70.0-130	6.04	25	
Acetone	ug/m3	3.75	9.10	8.34	102	93.6	70.0-130	8.72	25	
Acetonitrile	ug/m3	18.8	28.7	26.7	91.0	84.6	70.0-130	7.27	25	
Allyl chloride	ug/m3	3.75	10.8	10.3	91.7	87.5	70.0-130	4.76	25	
Benzene	ug/m3	3.75	11.1	10.9	92.3	90.9	70.0-130	1.46	25	
Benzyl chloride	ug/m3	3.75	16.3	16.7	83.7	85.6	70.0-152	2.20	25	
Bromodichloromethane	ug/m3	3.75	23.4	23.2	93.1	92.3	70.0-130	0.863	25	
Bromoform	ug/m3	3.75	38.0	37.1	97.9	95.7	70.0-130	2.20	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol
Pace Project No.: 92736303

LABORATORY CONTROL SAMPLE & LCSD: R4081512-1			R4081512-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromomethane	ug/m3	3.75	14.2	14.0	97.9	96.3	70.0-130	1.65	25	
1,3-Butadiene	ug/m3	3.75	7.50	7.19	90.4	86.7	70.0-130	4.22	25	
Carbon disulfide	ug/m3	7.50	22.7	21.2	97.2	90.8	70.0-130	6.81	25	
Carbon tetrachloride	ug/m3	3.75	22.8	22.0	96.5	93.1	70.0-130	3.66	25	
Chlorobenzene	ug/m3	3.75	16.3	15.8	94.1	90.9	70.0-130	3.46	25	
Chloroethane	ug/m3	3.75	9.15	8.60	92.5	86.9	70.0-130	6.24	25	
Chloroform	ug/m3	3.75	17.6	16.9	96.3	92.8	70.0-130	3.67	25	
Chloromethane	ug/m3	3.75	7.52	7.06	97.1	91.2	70.0-130	6.23	25	
2-Chlorotoluene	ug/m3	3.75	18.3	19.2	94.9	99.2	70.0-130	4.40	25	
Cyclohexane	ug/m3	3.75	12.2	11.7	94.4	90.7	70.0-130	4.03	25	
Dibromochloromethane	ug/m3	3.75	29.3	29.4	91.7	92.3	70.0-130	0.580	25	
1,2-Dibromoethane (EDB)	ug/m3	3.75	27.5	26.7	95.5	92.5	70.0-130	3.12	25	
1,2-Dichlorobenzene	ug/m3	3.75	21.9	22.2	97.3	98.4	70.0-130	1.09	25	
1,3-Dichlorobenzene	ug/m3	3.75	21.5	21.8	95.2	96.5	70.0-130	1.39	25	
1,4-Dichlorobenzene	ug/m3	3.75	21.2	20.9	94.1	92.5	70.0-130	1.71	25	
1,2-Dichloroethane	ug/m3	3.75	14.0	13.9	92.0	91.5	70.0-130	0.581	25	
1,1-Dichloroethane	ug/m3	3.75	14.1	13.6	94.1	90.7	70.0-130	3.75	25	
1,1-Dichloroethene	ug/m3	3.75	14.4	13.7	96.8	92.3	70.0-130	4.80	25	
cis-1,2-Dichloroethene	ug/m3	3.75	14.2	13.6	95.7	91.7	70.0-130	4.27	25	
trans-1,2-Dichloroethene	ug/m3	3.75	14.4	13.4	96.8	90.4	70.0-130	6.84	25	
1,2-Dichloropropane	ug/m3	3.75	15.9	15.5	91.7	89.6	70.0-130	2.35	25	
cis-1,3-Dichloropropene	ug/m3	3.75	16.7	15.8	98.1	93.1	70.0-130	5.30	25	
trans-1,3-Dichloropropene	ug/m3	3.75	15.5	14.8	90.9	86.9	70.0-130	4.50	25	
1,4-Dioxane (p-Dioxane)	ug/m3	3.75	13.4	13.4	99.2	99.2	70.0-140	0.00	25	
Ethanol	ug/m3	3.75	6.64	6.73	93.9	95.2	55.0-148	1.41	25	
Ethylbenzene	ug/m3	3.75	15.4	15.6	94.9	95.7	70.0-130	0.839	25	
Ethyl acetate	ug/m3	3.75	12.5	11.7	92.3	86.9	70.0-130	5.95	25	
4-Ethyltoluene	ug/m3	3.75	18.0	18.1	97.9	98.1	70.0-130	0.272	25	
Trichlorofluoromethane	ug/m3	3.75	20.6	19.4	97.6	92.3	70.0-130	5.62	25	
Dichlorodifluoromethane	ug/m3	3.75	18.4	17.4	99.5	93.9	64.0-139	5.79	25	
1,1,2-Trichlorotrifluoroethane	ug/m3	3.75	28.5	27.0	99.2	93.9	70.0-130	5.52	25	
Dichlorotetrafluoroethane	ug/m3	3.75	25.8	25.0	98.4	95.5	70.0-130	3.03	25	
n-Heptane	ug/m3	3.75	13.8	13.9	89.9	90.4	70.0-130	0.592	25	
Hexachloro-1,3-butadiene	ug/m3	3.75	36.6	37.3	91.5	93.1	70.0-151	1.73	25	
n-Hexane	ug/m3	3.75	12.1	11.6	91.7	87.5	70.0-130	4.76	25	
Isopropylbenzene (Cumene)	ug/m3	3.75	17.6	18.2	95.2	98.7	70.0-130	3.58	25	
Methylene Chloride	ug/m3	3.75	12.4	11.7	95.2	89.6	70.0-130	6.06	25	
2-Hexanone	ug/m3	3.75	14.6	13.1	95.5	85.3	70.0-149	11.2	25	
2-Butanone (MEK)	ug/m3	3.75	10.3	9.82	93.3	88.8	70.0-130	4.98	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	3.75	14.0	13.6	91.2	88.5	70.0-139	2.97	25	
Methyl methacrylate	ug/m3	3.75	14.3	14.4	93.1	93.9	70.0-130	0.856	25	
Methyl-tert-butyl ether	ug/m3	3.75	13.3	12.1	98.1	89.6	70.0-130	9.09	25	
Naphthalene	ug/m3	3.75	17.7	18.0	90.4	91.7	70.0-159	1.46	25	
2-Propanol	ug/m3	3.75	8.11	7.72	88.0	83.7	70.0-139	4.97	25	
Propylene	ug/m3	3.75	5.65	5.36	87.5	82.9	64.0-144	5.32	25	
Styrene	ug/m3	7.50	30.1	30.7	94.4	96.3	70.0-130	1.96	25	
1,1,2,2-Tetrachloroethane	ug/m3	3.75	24.7	25.6	96.0	99.5	70.0-130	3.55	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of Bristol

Pace Project No.: 92736303

LABORATORY CONTROL SAMPLE & LCSD: R4081512-1			R4081512-2							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/m3	3.75	24.0	23.6	94.4	92.5	70.0-130	2.00	25	
Tetrahydrofuran	ug/m3	3.75	10.1	9.05	91.7	81.9	70.0-137	11.4	25	
Toluene	ug/m3	3.75	13.1	12.9	93.1	91.2	70.0-130	2.03	25	
1,2,4-Trichlorobenzene	ug/m3	3.75	25.8	25.2	92.8	90.9	70.0-160	2.03	25	
1,1,1-Trichloroethane	ug/m3	3.75	19.4	18.3	95.2	89.6	70.0-130	6.06	25	
1,1,2-Trichloroethane	ug/m3	3.75	19.4	19.0	94.9	93.3	70.0-130	1.70	25	
Trichloroethene	ug/m3	3.75	18.2	19.0	90.4	94.7	70.0-130	4.61	25	
1,2,4-Trimethylbenzene	ug/m3	3.75	17.7	17.6	96.0	95.7	70.0-130	0.278	25	
1,3,5-Trimethylbenzene	ug/m3	3.75	17.2	17.9	93.3	97.1	70.0-130	3.92	25	
2,2,4-Trimethylpentane	ug/m3	3.75	16.1	15.6	92.0	89.1	70.0-130	3.24	25	
Vinyl chloride	ug/m3	3.75	9.20	8.82	96.0	92.0	70.0-130	4.26	25	
Vinyl bromide	ug/m3	3.75	16.6	15.5	101	94.7	70.0-130	6.80	25	
Vinyl acetate	ug/m3	3.75	11.3	10.9	85.6	82.4	70.0-130	3.81	25	
m&p-Xylene	ug/m3	7.50	31.3	31.6	96.4	97.2	70.0-130	0.826	25	
o-Xylene	ug/m3	3.75	15.3	15.9	94.1	97.6	70.0-130	3.62	25	
Xylene (Total)	ug/m3	11.3	46.9	47.8	95.6	97.3	70.0-130	1.83	25	
4-Bromofluorobenzene (S)	%				93.3	93.0	60.0-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: City of Bristol
Pace Project No.: 92736303

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
Pace Project No.: 92736303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92736303001	June 24hr Sample	TO-15	2303838	TO-15	2303838

REPORT OF LABORATORY ANALYSIS

MO#: 92736303



92736303

Customer Name: Pace Analytical - Huntersville, NC
Street Address: 9800 Kinney Avenue, Suite 100
City, State Zip: Huntersville, NC 28078

Phone #: 704-875-9092
E-Mail: eben.buchanan@pacelabs.com
CC E-Mail:

Customer Project #: *alcochran@bns.com*
Invoice to: *alcochran@bns.com*
Invoice #: *704-875-9092*
E-Mail: *eben.buchanan@pacelabs.com*
Purchase Order # (if applicable):
Quote #:

Project Name: City of Bristol

Site Collection Info/Facility ID (as applicable):
PACE-POULSONVA 001

Time Zone collected: [] AK [] PT [] MT [] CT ☒ ET
Regulatory Program (CMA, RCRA, etc.) as applicable: *VA*

Level II [] Level III [] Level IV []
EQUUS []
Date Results Requested: *02/24/10*

Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID: *June 24hr Sample*

Matrix # *02445-0097* Canister ID *614410.08* Flow Controller ID *4410.08* Begin Collection Date *02/24/10* End Collection Date *02/24/10*

Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate m ³ /min or L/min	Total Volume Sampled m ³ or L	Analyses Requested	Lab Use Only
<i>29.69</i>	<i>5.13</i>				<i>TO-15 Summa</i>	<i>Profile / Template: T210823</i>
						<i>Prelog / Bottle ID: P1074244</i>
						<i>Sample Comment: L1145728.01</i>

Customer Remarks / Special Conditions / Possible Hazards:
For Franklin D Cochran II - City of Bristol - Reporting through Pace-NC

Collected By: *Franklin D Cochran II*
Signature: *Franklin D Cochran II*
Date/Time: *02/24/10 10:00a*

Received by/Company (Signature): *Franklin D Cochran II*
Date/Time: *02/24/10 10:00a*

Delivered by/Company (Signature): *Franklin D Cochran II*
Date/Time: *02/24/10 10:00a*

MO#: 92736303

PM: EDB
CLIENT: 92-BristolVA

Due Date: 06/19/24

Tracking Number: *0900*