

December 28, 2021

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

RE: Project: December 24-HR
Pace Project No.: 92578156

Dear Sam Hess:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2021. 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:

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

Sincerely,

Ryan Brumfield
ryan.brumfield@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ms. Carrie Blankenship, Draper Aden Associates
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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SAMPLE SUMMARY

Project: December 24-HR

Pace Project No.: 92578156

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92578156001	December 24-HR	Air	12/11/21 15:00	12/14/21 10:09

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project:

Pace Project No.:

Method:

Description:

Client:

Date:

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

REPORT OF LABORATORY ANALYSIS

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2161009
http://www.contestlabs.com
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Doc #378 Rev 1_03242017

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:		2655 VALLEY DR BRISTOL, VA 24201	
Address:		276-645-3788	
Phone:		DECEMBER 24-1R	
Project Name:		CITY OF BRISTOL, VA LONGMEADOW	
Project Location:		CITY OF BRISTOL, VA - BRISTOL, VA	
Project Number:		ZAC MITCHELL	
Project Manager:		ZAC MITCHELL	
Con-Test Quote Name/Number:		CITY OF BRISTOL, VA - BRISTOL, VA	
Invoice Recipient:		ZAC MITCHELL	
Sampled By:		ZAC MITCHELL	
Lab Use:		Client Use:	
Con-Test Work Order #		Client Sample ID / Description	
01		DECEMBER 24-1R	
Beginning Date/Time		12/24/21 12:30PM	
Ending Date/Time		12/24/21 3:00PM	
Duration		1:40	
Flow Rate		m ³ /min	
Matrix		Code	
Volume		L/min	
6		3486	
Initial Pressure		25.759.8	
Final Pressure		25.759.8	
Lab Receipt Pressure		25.759.8	
Summa Can ID		2159	
Flow Controller ID		3486	
Summa Canister and flow controllers must be returned within 15 days of receipt or rental fees will apply			
For Summa Canister and flow controller information please refer to Con-Test's Air Media Agreement			
Please fill out completely, sign, date and retain the yellow copy for your records			

Requested Turnaround Time: 7-Day ☒ 10-Day ☐
Due Date: Rush-Approval Required: 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐
Format: PDF ☒ EXCEL ☐
Other: CLP Like Data Pkg Required: ☐
Email To: Fax To #:

ANALYSIS REQUESTED: TQ-15 ppbv LOW LEVEL

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Special Requirements:
MA MCP Required ☐
MCP Certification Form Required ☐
CT RCP Required ☐
RCP Certification Form Required ☐
Other: ☐

Detection Limit Requirements:
MA ☐
CT ☐
Other: ☐

Relinquished by: (signature) ZAC MITCHELL Date/Time: 12/24/21 12:30PM
Received by: (signature) Date/Time: 12/24/21 10:08AM
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Project Entity:
☐ Government ☐ Municipality ☐ AWWRA ☐ WR
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

con-test ANALYTICAL LABORATORY
www.con-testlabs.com

W0#: 92578156

92578156

PM: RNB Due Date: 12/15/21
CLIENT: 92-DRAPER



con-test®
ANALYTICAL LABORATORY

Air Media Sample Receipt Checklist - (Inspection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Face

Received By	<u>PLF</u>	Date	<u>12/14/21</u>	Time	<u>1009</u>
How were the samples received?	In Cooler <u> </u> In Box <u> </u>	On Ice <u> </u> Ambient <u> </u>	No Ice <u> </u> Melted Ice <u> </u>		
Were samples within Temperature Compliance? 2-6°C	<u>NA</u>	By Gun # <u> </u> By Blank # <u> </u>	Actual Temp - <u> </u> Actual Temp - <u> </u>		
Was Custody Seal Intact?	<u>NA</u>	Were Samples Tampered with?	<u>NA</u>		
Was COC Relinquished?	<u> </u>	Does Chain Agree With Samples?	<u> </u>		
Are there any loose caps/valves on any samples?	<u> </u>		<u> </u>		
Is COC in ink/ Legible?	<u> </u>				
Did COC Include all Pertinent Information?	Client <u> </u> Project <u> </u>	Analysis <u> </u> ID's <u> </u>	Sampler Name <u> </u> Collection Dates/Times <u> </u>		
Are Sample Labels filled out and legible?	<u> </u>				
Are there Rushes?	<u> </u>	Who was notified?	<u> </u>		
Samples are received within holding time?	<u> </u>				
Proper Media Used?	<u> </u>	Individually Certified Cans?	<u> </u>		
Are there Trip Blanks?	<u> </u>	Is there enough Volume?	<u> </u>		

Component	#	Size	Material	Quantity	Assembly
Summa Cans	1	60L	I	24hr	Nut/Ferrule
Tedlar Bags					Tubing
TO-17 Tubes					T-Connector
Radiello					Syringe
Pufs/TO-11s					Tedlar

[illegible]**Comments:**

Surge Lok Nut/Ferrul Set: 1
Tubing (Feet): 5ft

December 27, 2021

Ryan Brumfield
Pace Analytical Services - NC
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078

Project Location: City of Bristol, VA Landfill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 21L1009

Enclosed are results of analyses for samples as received by the laboratory on December 14, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Pace Analytical Services - NC
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
ATTN: Ryan Brumfield

REPORT DATE: 12/27/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21L1009

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: City of Bristol, VA Landfill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
December 24-Hr	21L1009-01	Air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:****L-01**

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**1,1,1-Trichloroethane**

B297804-BS1

Vinyl Acetate

B297804-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Vinyl Acetate**

21L1009-01[December 24-Hr], B297804-BLK1, B297804-BS1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Ethyl Acetate**

21L1009-01[December 24-Hr], B297804-BLK1, B297804-BS1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Ethanol**

21L1009-01[December 24-Hr], B297804-BLK1, B297804-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: City of Bristol, VA Landfill
 Date Received: 12/14/2021
Field Sample #: December 24-Hr
Sample ID: 21L1009-01
 Sample Matrix: Air
 Sampled: 12/11/2021 15:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2159
 Canister Size: 6 liter
 Flow Controller ID: 3485
 Sample Type: 24 hr

Work Order: 21L1009
 Initial Vacuum(in Hg): -25.2
 Final Vacuum(in Hg): -7.5
 Receipt Vacuum(in Hg): -9.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			ug/m3		Dilution	Date/Time		Analyst
	Results	RL	Flag/Qual	Results	RL		Analyzed		
Acetone	18	8.0		44	19	4	12/25/21 6:49	BRF	
Benzene	11	0.20		34	0.64	4	12/25/21 6:49	BRF	
Benzyl chloride	ND	0.20		ND	1.0	4	12/25/21 6:49	BRF	
Bromodichloromethane	ND	0.20		ND	1.3	4	12/25/21 6:49	BRF	
Bromoform	ND	0.20		ND	2.1	4	12/25/21 6:49	BRF	
Bromomethane	ND	0.20		ND	0.78	4	12/25/21 6:49	BRF	
1,3-Butadiene	ND	0.20		ND	0.44	4	12/25/21 6:49	BRF	
2-Butanone (MEK)	ND	8.0		ND	24	4	12/25/21 6:49	BRF	
Carbon Disulfide	ND	2.0		ND	6.2	4	12/25/21 6:49	BRF	
Carbon Tetrachloride	ND	0.20		ND	1.3	4	12/25/21 6:49	BRF	
Chlorobenzene	ND	0.20		ND	0.92	4	12/25/21 6:49	BRF	
Chloroethane	ND	0.20		ND	0.53	4	12/25/21 6:49	BRF	
Chloroform	ND	0.20		ND	0.98	4	12/25/21 6:49	BRF	
Chloromethane	0.68	0.40		1.4	0.83	4	12/25/21 6:49	BRF	
Cyclohexane	ND	0.20		ND	0.69	4	12/25/21 6:49	BRF	
Dibromochloromethane	ND	0.20		ND	1.7	4	12/25/21 6:49	BRF	
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	12/25/21 6:49	BRF	
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	12/25/21 6:49	BRF	
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	12/25/21 6:49	BRF	
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	12/25/21 6:49	BRF	
Dichlorodifluoromethane (Freon 12)	0.46	0.20		2.3	0.99	4	12/25/21 6:49	BRF	
1,1-Dichloroethane	ND	0.20		ND	0.81	4	12/25/21 6:49	BRF	
1,2-Dichloroethane	ND	0.20		ND	0.81	4	12/25/21 6:49	BRF	
1,1-Dichloroethylene	0.82	0.20		3.3	0.79	4	12/25/21 6:49	BRF	
cis-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	12/25/21 6:49	BRF	
trans-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	12/25/21 6:49	BRF	
1,2-Dichloropropane	ND	0.20		ND	0.92	4	12/25/21 6:49	BRF	
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	12/25/21 6:49	BRF	
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	12/25/21 6:49	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	12/25/21 6:49	BRF	
1,4-Dioxane	ND	2.0		ND	7.2	4	12/25/21 6:49	BRF	
Ethanol	88	8.0	V-35	170	15	4	12/25/21 6:49	BRF	
Ethyl Acetate	2.0	2.0	V-34	7.4	7.2	4	12/25/21 6:49	BRF	
Ethylbenzene	1.2	0.20		5.3	0.87	4	12/25/21 6:49	BRF	
4-Ethyltoluene	ND	0.20		ND	0.98	4	12/25/21 6:49	BRF	
Heptane	0.34	0.20		1.4	0.82	4	12/25/21 6:49	BRF	
Hexachlorobutadiene	ND	0.20		ND	2.1	4	12/25/21 6:49	BRF	

ANALYTICAL RESULTS

Project Location: City of Bristol, VA Landfill
Date Received: 12/14/2021
Field Sample #: December 24-Hr
Sample ID: 21L1009-01
Sample Matrix: Air
Sampled: 12/11/2021 15:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2159
Canister Size: 6 liter
Flow Controller ID: 3485
Sample Type: 24 hr

Work Order: 21L1009
Initial Vacuum(in Hg): -25.2
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -9.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	8.0		ND	28	4	12/25/21	6:49	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	12/25/21	6:49	BRF
Isopropanol	ND	8.0		ND	20	4	12/25/21	6:49	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	12/25/21	6:49	BRF
Methylene Chloride	ND	2.0		ND	6.9	4	12/25/21	6:49	BRF
4-Methyl-2-pentanone (MIBK)	0.42	0.20		1.7	0.82	4	12/25/21	6:49	BRF
Naphthalene	ND	0.20		ND	1.0	4	12/25/21	6:49	BRF
Propene	ND	8.0		ND	14	4	12/25/21	6:49	BRF
Styrene	0.23	0.20		0.99	0.85	4	12/25/21	6:49	BRF
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	12/25/21	6:49	BRF
Tetrachloroethylene	ND	0.20		ND	1.4	4	12/25/21	6:49	BRF
Tetrahydrofuran	3.0	2.0		9.0	5.9	4	12/25/21	6:49	BRF
Toluene	2.2	0.20		8.4	0.75	4	12/25/21	6:49	BRF
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	12/25/21	6:49	BRF
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	12/25/21	6:49	BRF
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	12/25/21	6:49	BRF
Trichloroethylene	0.24	0.20		1.3	1.1	4	12/25/21	6:49	BRF
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	12/25/21	6:49	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	12/25/21	6:49	BRF
1,2,4-Trimethylbenzene	0.36	0.20		1.8	0.98	4	12/25/21	6:49	BRF
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	12/25/21	6:49	BRF
Vinyl Acetate	ND	4.0	V-05	ND	14	4	12/25/21	6:49	BRF
Vinyl Chloride	ND	0.20		ND	0.51	4	12/25/21	6:49	BRF
m&p-Xylene	0.90	0.40		3.9	1.7	4	12/25/21	6:49	BRF
o-Xylene	0.42	0.20		1.8	0.87	4	12/25/21	6:49	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	108	70-130	12/25/21	6:49

Sample Extraction Data

Prep Method: TO-15 Prep

Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21L1009-01 [December 24-Hr]	B297804	1.5	1	N/A	1000	200	75	12/24/21

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	

Batch B297804 - TO-15 Prep
Blank (B297804-BLK1)

Prepared: 12/24/21 Analyzed: 12/25/21

Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									V-35
Ethyl Acetate	ND	0.20									V-34
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									
Propene	ND	0.80									
Styrene	ND	0.020									

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B297804 - TO-15 Prep
Blank (B297804-BLK1)

Prepared: 12/24/21 Analyzed: 12/25/21

1,1,2,2-Tetrachloroethane	ND	0.020								
Tetrachloroethylene	ND	0.020								
Tetrahydrofuran	ND	0.20								
Toluene	ND	0.020								
1,2,4-Trichlorobenzene	ND	0.020								
1,1,1-Trichloroethane	ND	0.020								
1,1,2-Trichloroethane	ND	0.020								
Trichloroethylene	ND	0.020								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Acetate	ND	0.40								V-05
Vinyl Chloride	ND	0.020								
m&p-Xylene	ND	0.040								
o-Xylene	ND	0.020								

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.94</i>				<i>8.00</i>		<i>112</i>	<i>70-130</i>		
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LCS (B297804-BS1)

Prepared & Analyzed: 12/24/21

Acetone	4.01				5.00		80.1	70-130		
Benzene	4.92				5.00		98.3	70-130		
Benzyl chloride	4.46				5.00		89.1	70-130		
Bromodichloromethane	4.63				5.00		92.6	70-130		
Bromoform	5.18				5.00		104	70-130		
Bromomethane	5.17				5.00		103	70-130		
1,3-Butadiene	4.51				5.00		90.3	70-130		
2-Butanone (MEK)	4.50				5.00		90.0	70-130		
Carbon Disulfide	4.21				5.00		84.3	70-130		
Carbon Tetrachloride	4.48				5.00		89.6	70-130		
Chlorobenzene	4.88				5.00		97.7	70-130		
Chloroethane	4.97				5.00		99.5	70-130		
Chloroform	4.67				5.00		93.4	70-130		
Chloromethane	4.44				5.00		88.9	70-130		
Cyclohexane	5.09				5.00		102	70-130		
Dibromochloromethane	4.99				5.00		99.7	70-130		
1,2-Dibromoethane (EDB)	4.94				5.00		98.8	70-130		
1,2-Dichlorobenzene	5.38				5.00		108	70-130		
1,3-Dichlorobenzene	5.33				5.00		107	70-130		
1,4-Dichlorobenzene	6.38				5.00		128	70-130		
Dichlorodifluoromethane (Freon 12)	4.55				5.00		90.9	70-130		
1,1-Dichloroethane	4.60				5.00		92.0	70-130		
1,2-Dichloroethane	4.16				5.00		83.2	70-130		
1,1-Dichloroethylene	4.79				5.00		95.8	70-130		
cis-1,2-Dichloroethylene	4.93				5.00		98.6	70-130		
trans-1,2-Dichloroethylene	4.65				5.00		93.0	70-130		
1,2-Dichloropropane	5.08				5.00		102	70-130		

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B297804 - TO-15 Prep											
LCS (B297804-BS1)					Prepared & Analyzed: 12/24/21						
cis-1,3-Dichloropropene	5.14				5.00		103	70-130			
trans-1,3-Dichloropropene	5.14				5.00		103	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.64				5.00		92.8	70-130			
1,4-Dioxane	5.40				5.00		108	70-130			
Ethanol	5.88				5.00		118	70-130			V-35
Ethyl Acetate	3.62				5.00		72.4	70-130			V-34
Ethylbenzene	5.01				5.00		100	70-130			
4-Ethyltoluene	5.33				5.00		107	70-130			
Heptane	4.84				5.00		96.8	70-130			
Hexachlorobutadiene	5.30				5.00		106	70-130			
Hexane	4.78				5.00		95.5	70-130			
2-Hexanone (MBK)	4.84				5.00		96.8	70-130			
Isopropanol	3.75				5.00		74.9	70-130			
Methyl tert-Butyl Ether (MTBE)	4.38				5.00		87.7	70-130			
Methylene Chloride	4.24				5.00		84.9	70-130			
4-Methyl-2-pentanone (MIBK)	5.55				5.00		111	70-130			
Naphthalene	5.14				5.00		103	70-130			
Propene	6.29				5.00		126	70-130			
Styrene	5.36				5.00		107	70-130			
1,1,2,2-Tetrachloroethane	5.26				5.00		105	70-130			
Tetrachloroethylene	5.24				5.00		105	70-130			
Tetrahydrofuran	5.29				5.00		106	70-130			
Toluene	5.01				5.00		100	70-130			
1,2,4-Trichlorobenzene	4.79				5.00		95.8	70-130			
1,1,1-Trichloroethane	6.89				5.00		138	*	70-130		L-01
1,1,2-Trichloroethane	5.20				5.00		104	70-130			
Trichloroethylene	4.92				5.00		98.5	70-130			
Trichlorofluoromethane (Freon 11)	4.52				5.00		90.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.42				5.00		88.5	70-130			
1,2,4-Trimethylbenzene	4.98				5.00		99.7	70-130			
1,3,5-Trimethylbenzene	5.03				5.00		101	70-130			
Vinyl Acetate	6.85				5.00		137	*	70-130		L-01, V-05
Vinyl Chloride	4.61				5.00		92.3	70-130			
m&p-Xylene	8.92				10.0		89.2	70-130			
o-Xylene	5.08				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	9.20				8.00		115	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
December 24-Hr (21L1009-01)			Lab File ID: K21A358028.D			Analyzed: 12/25/21 06:49			
Bromochloromethane (1)	56383	2.955				60 - 140	2.9550	+/-0.50	
1,4-Difluorobenzene (1)	193045	3.562				60 - 140	3.5620	+/-0.50	
Chlorobenzene-d5 (1)	176820	5.155				60 - 140	5.1550	+/-0.50	

CONTINUING CALIBRATION CHECK

COMPOUND	TYPE			RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022