Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 20, 2016

Matt Faust
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: Tower Standard
Pace Project No.: 10343819

Dear Matt Faust:
Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Shawn Davis
shawn.davis@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Tower Standard
Pace Project No.: 10343819

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Tower Standard
Pace Project No.: 10343819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10343819001	**16TSAA01**	Air	04/01/16 17:48	04/06/16 09:50
10343819002	**16TSAA02**	Air	04/01/16 18:05	04/06/16 09:50
10343819003	**16TSSV01**	Air	04/01/16 17:26	04/06/16 09:50
10343819004	**UNUSED 1**	Air		04/06/16 09:50
10343819005	**UNUSED 2**	Air		04/06/16 09:50
10343819006	**UNUSED 3**	Air		04/06/16 09:50
10343819007	**UNUSED 4**	Air		04/06/16 09:50
10343819008	**UNUSED 5**	Air		04/06/16 09:50

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SAMPLE ANALYTE COUNT

Project: Tower Standard
Pace Project No.: 10343819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10343819001	**16TSAA01**	TO-15	MLS	61	PASI-M
10343819002	**16TSAA02**	TO-15	MLS	61	PASI-M
10343819003	**16TSSV01**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: Tower Standard
Pace Project No.: 10343819

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343819001	**16TSAA01**					
TO-15	Acetone	6.6	ppbv	1.7	04/19/16 17:51	
TO-15	Chloromethane	0.43	ppbv	0.34	04/19/16 17:51	
TO-15	Cyclohexane	0.45	ppbv	0.34	04/19/16 17:51	
TO-15	1,2-Dichlorobenzene	0.55	ppbv	0.34	04/19/16 17:51	
TO-15	Dichlorodifluoromethane	2.3	ppbv	0.34	04/19/16 17:51	
TO-15	Ethanol	14.5	ppbv	0.84	04/19/16 17:51	
TO-15	Ethylbenzene	0.44	ppbv	0.34	04/19/16 17:51	
TO-15	4-Ethyltoluene	0.74	ppbv	0.34	04/19/16 17:51	
TO-15	Naphthalene	2.3	ppbv	0.84	04/19/16 17:51	
TO-15	2-Propanol	8.9	ppbv	1.7	04/19/16 17:51	
TO-15	Propylene	0.50	ppbv	0.34	04/19/16 17:51	
TO-15	1,1,2,2-Tetrachloroethane	0.66	ppbv	0.17	04/19/16 17:51	
TO-15	Tetrahydrofuran	0.44	ppbv	0.34	04/19/16 17:51	
TO-15	Toluene	0.90	ppbv	0.34	04/19/16 17:51	
TO-15	Trichlorofluoromethane	0.45	ppbv	0.34	04/19/16 17:51	
TO-15	1,2,4-Trimethylbenzene	1.2	ppbv	0.34	04/19/16 17:51	
TO-15	1,3,5-Trimethylbenzene	0.73	ppbv	0.34	04/19/16 17:51	
TO-15	m&p-Xylene	1.2	ppbv	0.67	04/19/16 17:51	
10343819002	**16TSAA02**					
TO-15	Acetone	29.2	ppbv	1.7	04/19/16 18:42	
TO-15	Benzene	0.19	ppbv	0.17	04/19/16 18:42	
TO-15	2-Butanone (MEK)	1.9	ppbv	1.7	04/19/16 18:42	
TO-15	Chloromethane	0.64	ppbv	0.34	04/19/16 18:42	
TO-15	Cyclohexane	0.58	ppbv	0.34	04/19/16 18:42	
TO-15	Dichlorodifluoromethane	0.37	ppbv	0.34	04/19/16 18:42	
TO-15	Ethanol	7.7	ppbv	0.84	04/19/16 18:42	
TO-15	Ethyl acetate	0.58	ppbv	0.34	04/19/16 18:42	
TO-15	4-Ethyltoluene	0.52	ppbv	0.34	04/19/16 18:42	
TO-15	n-Hexane	26.7	ppbv	0.34	04/19/16 18:42	
TO-15	Methylene Chloride	205	ppbv	1.7	04/19/16 18:42	
TO-15	Propylene	0.74	ppbv	0.34	04/19/16 18:42	
TO-15	Toluene	3.4	ppbv	0.34	04/19/16 18:42	
TO-15	1,2,4-Trimethylbenzene	0.51	ppbv	0.34	04/19/16 18:42	
TO-15	1,3,5-Trimethylbenzene	0.52	ppbv	0.34	04/19/16 18:42	
TO-15	m&p-Xylene	0.84	ppbv	0.67	04/19/16 18:42	
10343819003	**16TSSV01**					
TO-15	Acetone	24.6	ppbv	1.8	04/19/16 19:31	
TO-15	Benzene	0.49	ppbv	0.18	04/19/16 19:31	
TO-15	2-Butanone (MEK)	3.3	ppbv	1.8	04/19/16 19:31	
TO-15	Carbon disulfide	0.57	ppbv	0.36	04/19/16 19:31	
TO-15	Cyclohexane	2.6	ppbv	0.36	04/19/16 19:31	
TO-15	Dichlorodifluoromethane	1.3	ppbv	0.36	04/19/16 19:31	
TO-15	Ethanol	20.5	ppbv	0.90	04/19/16 19:31	
TO-15	Ethyl acetate	0.65	ppbv	0.36	04/19/16 19:31	
TO-15	Ethylbenzene	1.1	ppbv	0.36	04/19/16 19:31	
TO-15	4-Ethyltoluene	1.0	ppbv	0.36	04/19/16 19:31	

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SUMMARY OF DETECTION

Project: Tower Standard
Pace Project No.: 10343819

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343819003	**16TSSV01**					
TO-15	n-Heptane	1.5	ppbv	0.36	04/19/16 19:31	
TO-15	n-Hexane	2.2	ppbv	0.36	04/19/16 19:31	
TO-15	Propylene	0.43	ppbv	0.36	04/19/16 19:31	
TO-15	Tetrachloroethene	2.6	ppbv	0.18	04/19/16 19:31	
TO-15	Toluene	4.2	ppbv	0.36	04/19/16 19:31	
TO-15	1,2,4-Trimethylbenzene	1.6	ppbv	0.36	04/19/16 19:31	
TO-15	1,3,5-Trimethylbenzene	0.93	ppbv	0.36	04/19/16 19:31	
TO-15	Vinyl acetate	2.4	ppbv	0.36	04/19/16 19:31	
TO-15	m&p-Xylene	4.1	ppbv	0.72	04/19/16 19:31	
TO-15	o-Xylene	1.5	ppbv	0.90	04/19/16 19:31	

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PROJECT NARRATIVE

Project: Tower Standard
Pace Project No.: 10343819

Method: **TO-15**
Description: TO15 MSV AIR
Client: Bristol Environmental Remediation Services, LLC
Date: April 20, 2016

General Information:
3 samples were analyzed for TO-15. 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.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria 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: Tower Standard
Pace Project No.: 10343819

Sample: 16TSAA01 **Lab ID: 10343819001** Collected: 04/01/16 17:48 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**6.6**	ppbv	1.7	0.58	1.68		04/19/16 17:51	67-64-1	
Benzene	ND	ppbv	0.17	0.063	1.68		04/19/16 17:51	71-43-2	
Benzyl chloride	ND	ppbv	0.84	0.053	1.68		04/19/16 17:51	100-44-7	
Bromodichloromethane	ND	ppbv	0.34	0.048	1.68		04/19/16 17:51	75-27-4	
Bromoform	ND	ppbv	0.84	0.14	1.68		04/19/16 17:51	75-25-2	
Bromomethane	ND	ppbv	0.34	0.13	1.68		04/19/16 17:51	74-83-9	
1,3-Butadiene	ND	ppbv	0.34	0.13	1.68		04/19/16 17:51	106-99-0	
2-Butanone (MEK)	ND	ppbv	1.7	0.13	1.68		04/19/16 17:51	78-93-3	
Carbon disulfide	ND	ppbv	0.34	0.054	1.68		04/19/16 17:51	75-15-0	
Carbon tetrachloride	ND	ppbv	0.34	0.051	1.68		04/19/16 17:51	56-23-5	
Chlorobenzene	ND	ppbv	0.34	0.048	1.68		04/19/16 17:51	108-90-7	
Chloroethane	ND	ppbv	0.34	0.12	1.68		04/19/16 17:51	75-00-3	
Chloroform	ND	ppbv	0.17	0.064	1.68		04/19/16 17:51	67-66-3	
Chloromethane	**0.43**	ppbv	0.34	0.086	1.68		04/19/16 17:51	74-87-3	
Cyclohexane	**0.45**	ppbv	0.34	0.15	1.68		04/19/16 17:51	110-82-7	
Dibromochloromethane	ND	ppbv	1.7	0.17	1.68		04/19/16 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	0.34	0.17	1.68		04/19/16 17:51	106-93-4	
1,2-Dichlorobenzene	**0.55**	ppbv	0.34	0.14	1.68		04/19/16 17:51	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.84	0.15	1.68		04/19/16 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.84	0.14	1.68		04/19/16 17:51	106-46-7	
Dichlorodifluoromethane	**2.3**	ppbv	0.34	0.16	1.68		04/19/16 17:51	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.34	0.064	1.68		04/19/16 17:51	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.17	0.084	1.68		04/19/16 17:51	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.34	0.099	1.68		04/19/16 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.34	0.10	1.68		04/19/16 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.34	0.16	1.68		04/19/16 17:51	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.34	0.096	1.68		04/19/16 17:51	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.34	0.13	1.68		04/19/16 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.84	0.095	1.68		04/19/16 17:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.34	0.073	1.68		04/19/16 17:51	76-14-2	
Ethanol	**14.5**	ppbv	0.84	0.23	1.68		04/19/16 17:51	64-17-5	
Ethyl acetate	ND	ppbv	0.34	0.16	1.68		04/19/16 17:51	141-78-6	
Ethylbenzene	**0.44**	ppbv	0.34	0.16	1.68		04/19/16 17:51	100-41-4	
4-Ethyltoluene	**0.74**	ppbv	0.34	0.063	1.68		04/19/16 17:51	622-96-8	
n-Heptane	ND	ppbv	0.34	0.11	1.68		04/19/16 17:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	0.34	0.10	1.68		04/19/16 17:51	87-68-3	
n-Hexane	ND	ppbv	0.34	0.17	1.68		04/19/16 17:51	110-54-3	
2-Hexanone	ND	ppbv	1.7	0.17	1.68		04/19/16 17:51	591-78-6	
Methylene Chloride	ND	ppbv	1.7	0.26	1.68		04/19/16 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.7	0.088	1.68		04/19/16 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	1.7	0.14	1.68		04/19/16 17:51	1634-04-4	
Naphthalene	**2.3**	ppbv	0.84	0.096	1.68		04/19/16 17:51	91-20-3	
2-Propanol	**8.9**	ppbv	1.7	0.16	1.68		04/19/16 17:51	67-63-0	
Propylene	**0.50**	ppbv	0.34	0.13	1.68		04/19/16 17:51	115-07-1	
Styrene	ND	ppbv	0.84	0.075	1.68		04/19/16 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	**0.66**	ppbv	0.17	0.079	1.68		04/19/16 17:51	79-34-5	

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ANALYTICAL RESULTS

Project: Tower Standard
Pace Project No.: 10343819

Sample: 16TSAA01 **Lab ID: 10343819001** Collected: 04/01/16 17:48 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ppbv	0.17	0.068	1.68		04/19/16 17:51	127-18-4	
Tetrahydrofuran	**0.44**	ppbv	0.34	0.067	1.68		04/19/16 17:51	109-99-9	
Toluene	**0.90**	ppbv	0.34	0.068	1.68		04/19/16 17:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.7	0.20	1.68		04/19/16 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.34	0.075	1.68		04/19/16 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.17	0.075	1.68		04/19/16 17:51	79-00-5	
Trichloroethene	ND	ppbv	0.17	0.085	1.68		04/19/16 17:51	79-01-6	
Trichlorofluoromethane	**0.45**	ppbv	0.34	0.039	1.68		04/19/16 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.34	0.065	1.68		04/19/16 17:51	76-13-1	
1,2,4-Trimethylbenzene	**1.2**	ppbv	0.34	0.042	1.68		04/19/16 17:51	95-63-6	
1,3,5-Trimethylbenzene	**0.73**	ppbv	0.34	0.061	1.68		04/19/16 17:51	108-67-8	
Vinyl acetate	ND	ppbv	0.34	0.15	1.68		04/19/16 17:51	108-05-4	
Vinyl chloride	ND	ppbv	0.17	0.13	1.68		04/19/16 17:51	75-01-4	
m&p-Xylene	**1.2**	ppbv	0.67	0.30	1.68		04/19/16 17:51	179601-23-1	
o-Xylene	ND	ppbv	0.84	0.13	1.68		04/19/16 17:51	95-47-6	

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ANALYTICAL RESULTS

Project: Tower Standard
Pace Project No.: 10343819

Sample: 16TSAA02 **Lab ID: 10343819002** Collected: 04/01/16 18:05 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**29.2**	ppbv	1.7	0.58	1.68		04/19/16 18:42	67-64-1	
Benzene	**0.19**	ppbv	0.17	0.063	1.68		04/19/16 18:42	71-43-2	
Benzyl chloride	ND	ppbv	0.84	0.053	1.68		04/19/16 18:42	100-44-7	
Bromodichloromethane	ND	ppbv	0.34	0.048	1.68		04/19/16 18:42	75-27-4	
Bromoform	ND	ppbv	0.84	0.14	1.68		04/19/16 18:42	75-25-2	
Bromomethane	ND	ppbv	0.34	0.13	1.68		04/19/16 18:42	74-83-9	
1,3-Butadiene	ND	ppbv	0.34	0.13	1.68		04/19/16 18:42	106-99-0	
2-Butanone (MEK)	**1.9**	ppbv	1.7	0.13	1.68		04/19/16 18:42	78-93-3	
Carbon disulfide	ND	ppbv	0.34	0.054	1.68		04/19/16 18:42	75-15-0	
Carbon tetrachloride	ND	ppbv	0.34	0.051	1.68		04/19/16 18:42	56-23-5	
Chlorobenzene	ND	ppbv	0.34	0.048	1.68		04/19/16 18:42	108-90-7	
Chloroethane	ND	ppbv	0.34	0.12	1.68		04/19/16 18:42	75-00-3	
Chloroform	ND	ppbv	0.17	0.064	1.68		04/19/16 18:42	67-66-3	
Chloromethane	**0.64**	ppbv	0.34	0.086	1.68		04/19/16 18:42	74-87-3	
Cyclohexane	**0.58**	ppbv	0.34	0.15	1.68		04/19/16 18:42	110-82-7	
Dibromochloromethane	ND	ppbv	1.7	0.17	1.68		04/19/16 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	0.34	0.17	1.68		04/19/16 18:42	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.34	0.14	1.68		04/19/16 18:42	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.84	0.15	1.68		04/19/16 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.84	0.14	1.68		04/19/16 18:42	106-46-7	
Dichlorodifluoromethane	**0.37**	ppbv	0.34	0.16	1.68		04/19/16 18:42	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.34	0.064	1.68		04/19/16 18:42	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.17	0.084	1.68		04/19/16 18:42	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.34	0.099	1.68		04/19/16 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.34	0.10	1.68		04/19/16 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.34	0.16	1.68		04/19/16 18:42	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.34	0.096	1.68		04/19/16 18:42	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.34	0.13	1.68		04/19/16 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.84	0.095	1.68		04/19/16 18:42	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.34	0.073	1.68		04/19/16 18:42	76-14-2	
Ethanol	**7.7**	ppbv	0.84	0.23	1.68		04/19/16 18:42	64-17-5	
Ethyl acetate	**0.58**	ppbv	0.34	0.16	1.68		04/19/16 18:42	141-78-6	
Ethylbenzene	ND	ppbv	0.34	0.16	1.68		04/19/16 18:42	100-41-4	
4-Ethyltoluene	**0.52**	ppbv	0.34	0.063	1.68		04/19/16 18:42	622-96-8	
n-Heptane	ND	ppbv	0.34	0.11	1.68		04/19/16 18:42	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	0.34	0.10	1.68		04/19/16 18:42	87-68-3	
n-Hexane	**26.7**	ppbv	0.34	0.17	1.68		04/19/16 18:42	110-54-3	
2-Hexanone	ND	ppbv	1.7	0.17	1.68		04/19/16 18:42	591-78-6	
Methylene Chloride	**205**	ppbv	1.7	0.26	1.68		04/19/16 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.7	0.088	1.68		04/19/16 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	1.7	0.14	1.68		04/19/16 18:42	1634-04-4	
Naphthalene	ND	ppbv	0.84	0.096	1.68		04/19/16 18:42	91-20-3	
2-Propanol	ND	ppbv	1.7	0.16	1.68		04/19/16 18:42	67-63-0	
Propylene	**0.74**	ppbv	0.34	0.13	1.68		04/19/16 18:42	115-07-1	
Styrene	ND	ppbv	0.84	0.075	1.68		04/19/16 18:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.17	0.079	1.68		04/19/16 18:42	79-34-5	

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ANALYTICAL RESULTS

Project: Tower Standard
Pace Project No.: 10343819

Sample: 16TSAA02 **Lab ID: 10343819002** Collected: 04/01/16 18:05 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ppbv	0.17	0.068	1.68		04/19/16 18:42	127-18-4	
Tetrahydrofuran	ND	ppbv	0.34	0.067	1.68		04/19/16 18:42	109-99-9	
Toluene	**3.4**	ppbv	0.34	0.068	1.68		04/19/16 18:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.7	0.20	1.68		04/19/16 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.34	0.075	1.68		04/19/16 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.17	0.075	1.68		04/19/16 18:42	79-00-5	
Trichloroethene	ND	ppbv	0.17	0.085	1.68		04/19/16 18:42	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.34	0.039	1.68		04/19/16 18:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.34	0.065	1.68		04/19/16 18:42	76-13-1	
1,2,4-Trimethylbenzene	**0.51**	ppbv	0.34	0.042	1.68		04/19/16 18:42	95-63-6	
1,3,5-Trimethylbenzene	**0.52**	ppbv	0.34	0.061	1.68		04/19/16 18:42	108-67-8	
Vinyl acetate	ND	ppbv	0.34	0.15	1.68		04/19/16 18:42	108-05-4	
Vinyl chloride	ND	ppbv	0.17	0.13	1.68		04/19/16 18:42	75-01-4	
m&p-Xylene	**0.84**	ppbv	0.67	0.30	1.68		04/19/16 18:42	179601-23-1	
o-Xylene	ND	ppbv	0.84	0.13	1.68		04/19/16 18:42	95-47-6	

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ANALYTICAL RESULTS

Project: Tower Standard
Pace Project No.: 10343819

Sample: 16TSSV01 **Lab ID: 10343819003** Collected: 04/01/16 17:26 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.6**	ppbv	1.8	0.62	1.8		04/19/16 19:31	67-64-1	
Benzene	**0.49**	ppbv	0.18	0.068	1.8		04/19/16 19:31	71-43-2	
Benzyl chloride	ND	ppbv	0.90	0.057	1.8		04/19/16 19:31	100-44-7	
Bromodichloromethane	ND	ppbv	0.36	0.051	1.8		04/19/16 19:31	75-27-4	
Bromoform	ND	ppbv	0.90	0.15	1.8		04/19/16 19:31	75-25-2	
Bromomethane	ND	ppbv	0.36	0.14	1.8		04/19/16 19:31	74-83-9	
1,3-Butadiene	ND	ppbv	0.36	0.14	1.8		04/19/16 19:31	106-99-0	
2-Butanone (MEK)	**3.3**	ppbv	1.8	0.14	1.8		04/19/16 19:31	78-93-3	
Carbon disulfide	**0.57**	ppbv	0.36	0.058	1.8		04/19/16 19:31	75-15-0	
Carbon tetrachloride	ND	ppbv	0.36	0.054	1.8		04/19/16 19:31	56-23-5	
Chlorobenzene	ND	ppbv	0.36	0.051	1.8		04/19/16 19:31	108-90-7	
Chloroethane	ND	ppbv	0.36	0.13	1.8		04/19/16 19:31	75-00-3	
Chloroform	ND	ppbv	0.18	0.069	1.8		04/19/16 19:31	67-66-3	
Chloromethane	ND	ppbv	0.36	0.093	1.8		04/19/16 19:31	74-87-3	
Cyclohexane	**2.6**	ppbv	0.36	0.16	1.8		04/19/16 19:31	110-82-7	
Dibromochloromethane	ND	ppbv	1.8	0.18	1.8		04/19/16 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ppbv	0.36	0.18	1.8		04/19/16 19:31	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.36	0.15	1.8		04/19/16 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.90	0.16	1.8		04/19/16 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.90	0.15	1.8		04/19/16 19:31	106-46-7	
Dichlorodifluoromethane	**1.3**	ppbv	0.36	0.17	1.8		04/19/16 19:31	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.36	0.069	1.8		04/19/16 19:31	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.18	0.090	1.8		04/19/16 19:31	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.36	0.11	1.8		04/19/16 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.36	0.11	1.8		04/19/16 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.36	0.17	1.8		04/19/16 19:31	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.36	0.10	1.8		04/19/16 19:31	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.36	0.14	1.8		04/19/16 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.90	0.10	1.8		04/19/16 19:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.36	0.078	1.8		04/19/16 19:31	76-14-2	
Ethanol	**20.5**	ppbv	0.90	0.25	1.8		04/19/16 19:31	64-17-5	
Ethyl acetate	**0.65**	ppbv	0.36	0.17	1.8		04/19/16 19:31	141-78-6	
Ethylbenzene	**1.1**	ppbv	0.36	0.17	1.8		04/19/16 19:31	100-41-4	
4-Ethyltoluene	**1.0**	ppbv	0.36	0.068	1.8		04/19/16 19:31	622-96-8	
n-Heptane	**1.5**	ppbv	0.36	0.12	1.8		04/19/16 19:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ppbv	0.36	0.11	1.8		04/19/16 19:31	87-68-3	
n-Hexane	**2.2**	ppbv	0.36	0.18	1.8		04/19/16 19:31	110-54-3	
2-Hexanone	ND	ppbv	1.8	0.18	1.8		04/19/16 19:31	591-78-6	
Methylene Chloride	ND	ppbv	1.8	0.28	1.8		04/19/16 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.8	0.094	1.8		04/19/16 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ppbv	1.8	0.15	1.8		04/19/16 19:31	1634-04-4	
Naphthalene	ND	ppbv	0.90	0.10	1.8		04/19/16 19:31	91-20-3	
2-Propanol	ND	ppbv	1.8	0.17	1.8		04/19/16 19:31	67-63-0	
Propylene	**0.43**	ppbv	0.36	0.14	1.8		04/19/16 19:31	115-07-1	
Styrene	ND	ppbv	0.90	0.080	1.8		04/19/16 19:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.18	0.085	1.8		04/19/16 19:31	79-34-5	

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ANALYTICAL RESULTS

Project: Tower Standard
Pace Project No.: 10343819

Sample: 16TSSV01 **Lab ID: 10343819003** Collected: 04/01/16 17:26 Received: 04/06/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**2.6**	ppbv	0.18	0.073	1.8		04/19/16 19:31	127-18-4	
Tetrahydrofuran	ND	ppbv	0.36	0.071	1.8		04/19/16 19:31	109-99-9	
Toluene	**4.2**	ppbv	0.36	0.072	1.8		04/19/16 19:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.8	0.22	1.8		04/19/16 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.36	0.080	1.8		04/19/16 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.18	0.080	1.8		04/19/16 19:31	79-00-5	
Trichloroethene	ND	ppbv	0.18	0.091	1.8		04/19/16 19:31	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.36	0.042	1.8		04/19/16 19:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.36	0.069	1.8		04/19/16 19:31	76-13-1	
1,2,4-Trimethylbenzene	**1.6**	ppbv	0.36	0.045	1.8		04/19/16 19:31	95-63-6	
1,3,5-Trimethylbenzene	**0.93**	ppbv	0.36	0.066	1.8		04/19/16 19:31	108-67-8	
Vinyl acetate	**2.4**	ppbv	0.36	0.17	1.8		04/19/16 19:31	108-05-4	
Vinyl chloride	ND	ppbv	0.18	0.14	1.8		04/19/16 19:31	75-01-4	
m&p-Xylene	**4.1**	ppbv	0.72	0.32	1.8		04/19/16 19:31	179601-23-1	
o-Xylene	**1.5**	ppbv	0.90	0.14	1.8		04/19/16 19:31	95-47-6	

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QUALITY CONTROL DATA

Project: Tower Standard
Pace Project No.: 10343819

QC Batch: AIR/25726 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10343819001, 10343819002, 10343819003

METHOD BLANK: 2236073 Matrix: Air
Associated Lab Samples: 10343819001, 10343819002, 10343819003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.20	04/19/16 15:05	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.10	04/19/16 15:05	
1,1,2-Trichloroethane	ppbv	ND	0.10	04/19/16 15:05	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.20	04/19/16 15:05	
1,1-Dichloroethane	ppbv	ND	0.20	04/19/16 15:05	
1,1-Dichloroethene	ppbv	ND	0.20	04/19/16 15:05	
1,2,4-Trichlorobenzene	ppbv	ND	1.0	04/19/16 15:05	
1,2,4-Trimethylbenzene	ppbv	ND	0.20	04/19/16 15:05	
1,2-Dibromoethane (EDB)	ppbv	ND	0.20	04/19/16 15:05	
1,2-Dichlorobenzene	ppbv	ND	0.20	04/19/16 15:05	
1,2-Dichloroethane	ppbv	ND	0.10	04/19/16 15:05	
1,2-Dichloropropane	ppbv	ND	0.20	04/19/16 15:05	
1,3,5-Trimethylbenzene	ppbv	ND	0.20	04/19/16 15:05	
1,3-Butadiene	ppbv	ND	0.20	04/19/16 15:05	
1,3-Dichlorobenzene	ppbv	ND	0.50	04/19/16 15:05	
1,4-Dichlorobenzene	ppbv	ND	0.50	04/19/16 15:05	
2-Butanone (MEK)	ppbv	ND	1.0	04/19/16 15:05	
2-Hexanone	ppbv	ND	1.0	04/19/16 15:05	
2-Propanol	ppbv	ND	1.0	04/19/16 15:05	
4-Ethyltoluene	ppbv	ND	0.20	04/19/16 15:05	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	1.0	04/19/16 15:05	
Acetone	ppbv	ND	1.0	04/19/16 15:05	
Benzene	ppbv	ND	0.10	04/19/16 15:05	
Benzyl chloride	ppbv	ND	0.50	04/19/16 15:05	
Bromodichloromethane	ppbv	ND	0.20	04/19/16 15:05	
Bromoform	ppbv	ND	0.50	04/19/16 15:05	
Bromomethane	ppbv	ND	0.20	04/19/16 15:05	
Carbon disulfide	ppbv	ND	0.20	04/19/16 15:05	
Carbon tetrachloride	ppbv	ND	0.20	04/19/16 15:05	
Chlorobenzene	ppbv	ND	0.20	04/19/16 15:05	
Chloroethane	ppbv	ND	0.20	04/19/16 15:05	
Chloroform	ppbv	ND	0.10	04/19/16 15:05	
Chloromethane	ppbv	ND	0.20	04/19/16 15:05	
cis-1,2-Dichloroethene	ppbv	ND	0.20	04/19/16 15:05	
cis-1,3-Dichloropropene	ppbv	ND	0.20	04/19/16 15:05	
Cyclohexane	ppbv	ND	0.20	04/19/16 15:05	
Dibromochloromethane	ppbv	ND	1.0	04/19/16 15:05	
Dichlorodifluoromethane	ppbv	ND	0.20	04/19/16 15:05	
Dichlorotetrafluoroethane	ppbv	ND	0.20	04/19/16 15:05	
Ethanol	ppbv	ND	0.50	04/19/16 15:05	
Ethyl acetate	ppbv	ND	0.20	04/19/16 15:05	

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QUALITY CONTROL DATA

Project: Tower Standard
Pace Project No.: 10343819

METHOD BLANK: 2236073 Matrix: Air
Associated Lab Samples: 10343819001, 10343819002, 10343819003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ppbv	ND	0.20	04/19/16 15:05	
Hexachloro-1,3-butadiene	ppbv	ND	0.20	04/19/16 15:05	
m&p-Xylene	ppbv	ND	0.40	04/19/16 15:05	
Methyl-tert-butyl ether	ppbv	ND	1.0	04/19/16 15:05	
Methylene Chloride	ppbv	ND	1.0	04/19/16 15:05	
n-Heptane	ppbv	ND	0.20	04/19/16 15:05	
n-Hexane	ppbv	ND	0.20	04/19/16 15:05	
Naphthalene	ppbv	ND	0.50	04/19/16 15:05	
o-Xylene	ppbv	ND	0.50	04/19/16 15:05	
Propylene	ppbv	ND	0.20	04/19/16 15:05	
Styrene	ppbv	ND	0.50	04/19/16 15:05	
Tetrachloroethene	ppbv	ND	0.10	04/19/16 15:05	
Tetrahydrofuran	ppbv	ND	0.20	04/19/16 15:05	
Toluene	ppbv	ND	0.20	04/19/16 15:05	
trans-1,2-Dichloroethene	ppbv	ND	0.20	04/19/16 15:05	
trans-1,3-Dichloropropene	ppbv	ND	0.50	04/19/16 15:05	
Trichloroethene	ppbv	ND	0.10	04/19/16 15:05	
Trichlorofluoromethane	ppbv	ND	0.20	04/19/16 15:05	
Vinyl acetate	ppbv	ND	0.20	04/19/16 15:05	
Vinyl chloride	ppbv	ND	0.10	04/19/16 15:05	

LABORATORY CONTROL SAMPLE: 2236074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	9.5	95	60-143	
1,1,2,2-Tetrachloroethane	ppbv	10	8.9	89	49-150	
1,1,2-Trichloroethane	ppbv	10	9.8	98	57-149	
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.9	99	66-131	
1,1-Dichloroethane	ppbv	10	9.7	97	62-139	
1,1-Dichloroethene	ppbv	10	9.9	99	62-135	
1,2,4-Trichlorobenzene	ppbv	10	10.8	108	55-146	
1,2,4-Trimethylbenzene	ppbv	10	9.6	96	57-143	
1,2-Dibromoethane (EDB)	ppbv	10	10.5	105	63-150	
1,2-Dichlorobenzene	ppbv	10	8.8	88	57-141	
1,2-Dichloroethane	ppbv	10	9.5	95	61-144	
1,2-Dichloropropane	ppbv	10	10.1	101	63-144	
1,3,5-Trimethylbenzene	ppbv	10	9.6	96	54-147	
1,3-Butadiene	ppbv	10	9.9	99	61-140	
1,3-Dichlorobenzene	ppbv	10	9.1	91	51-150	
1,4-Dichlorobenzene	ppbv	10	9.0	90	57-143	
2-Butanone (MEK)	ppbv	10	12.4	124	66-144	
2-Hexanone	ppbv	10	14.1	141	63-147	
2-Propanol	ppbv	10	12.9	129	54-146	
4-Ethyltoluene	ppbv	10	9.4	94	56-150	

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QUALITY CONTROL DATA

Project: Tower Standard
Pace Project No.: 10343819

LABORATORY CONTROL SAMPLE: 2236074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ppbv	10	13.4	134	58-150	
Acetone	ppbv	10	12.4	124	46-140	
Benzene	ppbv	10	10.4	104	62-141	
Benzyl chloride	ppbv	10	8.0	80	66-138	
Bromodichloromethane	ppbv	10	10	100	58-149	
Bromoform	ppbv	10	9.0	90	61-150	
Bromomethane	ppbv	10	9.1	91	58-136	
Carbon disulfide	ppbv	10	9.9	99	59-135	
Carbon tetrachloride	ppbv	10	9.7	97	60-149	
Chlorobenzene	ppbv	10	10.5	105	60-150	
Chloroethane	ppbv	10	9.4	94	61-136	
Chloroform	ppbv	10	9.6	96	65-138	
Chloromethane	ppbv	10	9.6	96	62-133	
cis-1,2-Dichloroethene	ppbv	10	10.1	101	65-139	
cis-1,3-Dichloropropene	ppbv	10	10	100	61-149	
Cyclohexane	ppbv	10	12.4	124	64-134	
Dibromochloromethane	ppbv	10	10.6	106	59-150	
Dichlorodifluoromethane	ppbv	10	9.4	94	63-134	
Dichlorotetrafluoroethane	ppbv	10	9.4	94	62-134	
Ethanol	ppbv	10	12.0	120	50-144	
Ethyl acetate	ppbv	10	9.2	92	55-146	
Ethylbenzene	ppbv	10	10.1	101	59-149	
Hexachloro-1,3-butadiene	ppbv	10	8.0	80	42-150	
m&p-Xylene	ppbv	10	11.4	114	59-146	
Methyl-tert-butyl ether	ppbv	10	11.3	113	64-135	
Methylene Chloride	ppbv	10	11.3	113	64-128	
n-Heptane	ppbv	10	11.0	110	64-140	
n-Hexane	ppbv	10	9.8	98	50-138	
Naphthalene	ppbv	10	9.5	95	46-146	
o-Xylene	ppbv	10	10.1	101	54-149	
Propylene	ppbv	10	10.3	103	58-135	
Styrene	ppbv	10	9.3	93	54-150	
Tetrachloroethene	ppbv	10	10.3	103	60-142	
Tetrahydrofuran	ppbv	10	10	100	56-143	
Toluene	ppbv	10	10.3	103	61-138	
trans-1,2-Dichloroethene	ppbv	10	9.9	99	67-137	
trans-1,3-Dichloropropene	ppbv	10	9.2	92	59-145	
Trichloroethene	ppbv	10	10.2	102	60-144	
Trichlorofluoromethane	ppbv	10	8.9	89	59-134	
Vinyl acetate	ppbv	10	10.1	101	55-143	
Vinyl chloride	ppbv	10	9.5	95	63-135	

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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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Tower Standard
Pace Project No.: 10343819

SAMPLE DUPLICATE: 2236371

Parameter	Units	10343819001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		25	
1,1,2,2-Tetrachloroethane	ppbv	0.66	ND		25	
1,1,2-Trichloroethane	ppbv	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		25	
1,1-Dichloroethane	ppbv	ND	ND		25	
1,1-Dichloroethene	ppbv	ND	ND		25	
1,2,4-Trichlorobenzene	ppbv	ND	ND		25	
1,2,4-Trimethylbenzene	ppbv	1.2	1.1	8	25	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		25	
1,2-Dichlorobenzene	ppbv	0.55	ND		25	
1,2-Dichloroethane	ppbv	ND	ND		25	
1,2-Dichloropropane	ppbv	ND	ND		25	
1,3,5-Trimethylbenzene	ppbv	0.73	0.68	7	25	
1,3-Butadiene	ppbv	ND	ND		25	
1,3-Dichlorobenzene	ppbv	ND	ND		25	
1,4-Dichlorobenzene	ppbv	ND	ND		25	
2-Butanone (MEK)	ppbv	ND	ND		25	
2-Hexanone	ppbv	ND	ND		25	
2-Propanol	ppbv	8.9	8.4	5	25	
4-Ethyltoluene	ppbv	0.74	0.71	4	25	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		25	
Acetone	ppbv	6.6	5.7	15	25	
Benzene	ppbv	ND	.13J		25	
Benzyl chloride	ppbv	ND	ND		25	
Bromodichloromethane	ppbv	ND	ND		25	
Bromoform	ppbv	ND	ND		25	
Bromomethane	ppbv	ND	ND		25	
Carbon disulfide	ppbv	ND	ND		25	
Carbon tetrachloride	ppbv	ND	ND		25	
Chlorobenzene	ppbv	ND	ND		25	
Chloroethane	ppbv	ND	ND		25	
Chloroform	ppbv	ND	ND		25	
Chloromethane	ppbv	0.43	0.46	7	25	
cis-1,2-Dichloroethene	ppbv	ND	ND		25	
cis-1,3-Dichloropropene	ppbv	ND	ND		25	
Cyclohexane	ppbv	0.45	0.43	3	25	
Dibromochloromethane	ppbv	ND	ND		25	
Dichlorodifluoromethane	ppbv	2.3	2.0	13	25	
Dichlorotetrafluoroethane	ppbv	ND	ND		25	
Ethanol	ppbv	14.5	14.0	4	25	
Ethyl acetate	ppbv	ND	ND		25	
Ethylbenzene	ppbv	0.44	0.40	10	25	
Hexachloro-1,3-butadiene	ppbv	ND	ND		25	
m&p-Xylene	ppbv	1.2	1.2	4	25	
Methyl-tert-butyl ether	ppbv	ND	ND		25	
Methylene Chloride	ppbv	ND	.87J		25	
n-Heptane	ppbv	ND	.27J		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tower Standard
Pace Project No.: 10343819

SAMPLE DUPLICATE: 2236371

Parameter	Units	10343819001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ppbv	ND	.27J		25	
Naphthalene	ppbv	2.3	.73J		25	
o-Xylene	ppbv	ND	.5J		25	
Propylene	ppbv	0.50	0.50	1	25	
Styrene	ppbv	ND	.64J		25	
Tetrachloroethene	ppbv	ND	ND		25	
Tetrahydrofuran	ppbv	0.44	0.44	2	25	
Toluene	ppbv	0.90	0.90	0	25	
trans-1,2-Dichloroethene	ppbv	ND	ND		25	
trans-1,3-Dichloropropene	ppbv	ND	ND		25	
Trichloroethene	ppbv	ND	ND		25	
Trichlorofluoromethane	ppbv	0.45	0.46	1	25	
Vinyl acetate	ppbv	ND	ND		25	
Vinyl chloride	ppbv	ND	ND		25	

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QUALIFIERS

Project: Tower Standard
Pace Project No.: 10343819

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tower Standard
Pace Project No.: 10343819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10343819001	**16TSAA01**	TO-15	AIR/25726		
10343819002	**16TSAA02**	TO-15	AIR/25726		
10343819003	**16TSSV01**	TO-15	AIR/25726		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10343817

24487

Page: 1 of 1

Section A Required Client Information:

Company: Bristol Environmental
Address: 111 W 16th Ave
Anchorage, Ak 99501
Email To: mfaust@bristol-companies.com
Phone: 907 563 0013 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Matt Faust
Copy To: Lyndsey Kleppin
Purchase Order No.: 34166624
Project Name: Tower Standard
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: [X] UST [ ] Superfund [ ] Emissions [ ] Clean Air Act [ ] Voluntary Clean Up [ ] Dry Clean [ ] RCRA [ ] Other

Location of Sampling by State: WI

Reporting Units: µg/m³ [X] mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Method: PM10, 3C-Fixed Gas (%), TO-3, TO-3M (Methane), TO-4 (PCBs), TO-13 (PAH), TO-14, TO-15, TO15 Short List*

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE END DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	TO-14	Pace Lab ID
1	16TSAA01	6LC		3/31/16	1759	4/1/16	1748	-30	-5	0971	0235	X	001
2	16TSAA02	6LC		3/31/16	1810	4/1/16	1805	-30	-5	2348	1012	X	002
3	16TSSV01	1LC		4/1/16	1719	4/1/16	1726	-28	-3	2195	1002	X	003
4													
5													
6													
7													
8													
9													
10													
11													
12													

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] Bristol	4/2/16	1300	[signature] Pace	4/6/16	950

SAMPLE CONDITIONS: Temp in °C — Received on Ice Y/N — Custody Sealed Cooler Y/N — Samples Intact Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lyndsey Kleppin
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 04/02/16

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Bristol Env.

Project #: WO#: 10343819

10343819

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 0657 5035 9965 ; 9954

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** RA 4/6/16

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
Unused 1	1054	0388			
2	1044	0741			
3	2186	0136			
4	2175	0885			
5	2292	0242			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Shannon Davis **Date:** 4/7/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)