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

April 18, 2016

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

RE: Project: Tower
Pace Project No.: 10343520

Dear Matt Faust:
Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

CERTIFICATIONS

Project: Tower
Pace Project No.: 10343520

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE SUMMARY

Project: Tower
Pace Project No.: 10343520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10343520001	**16TSGW04**	Water	04/03/16 10:10	04/04/16 10:22
10343520002	**16TSGW05**	Water	04/03/16 11:35	04/04/16 10:22
10343520003	**16TSTB02**	Water	04/03/16 00:00	04/04/16 10:22

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE ANALYTE COUNT

Project: Tower
Pace Project No.: 10343520

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10343520001	**16TSGW04**	EPA 6010C	DM	7	PASI-M
		EPA 7470A	JDD	1	PASI-M
		EPA 8260B	PRD	70	PASI-M
		EPA 353.2	MW	3	PASI-M
		ASTM D516	KEO	1	PASI-M
10343520002	**16TSGW05**	EPA 6010C	DM	7	PASI-M
		EPA 7470A	JDD	1	PASI-M
		EPA 8260B	PRD	70	PASI-M
		EPA 353.2	MW	3	PASI-M
		ASTM D516	KEO	1	PASI-M
10343520003	**16TSTB02**	EPA 8260B	PRD	70	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SUMMARY OF DETECTION

Project: Tower
Pace Project No.: 10343520

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10343520001	**16TSGW04**					
EPA 6010C	Barium	45.0	ug/L	4.1	04/07/16 13:33	
EPA 6010C	Chromium	6.9	ug/L	2.9	04/07/16 13:33	
EPA 6010C	Lead	41.1	ug/L	6.8	04/07/16 13:33	
EPA 8260B	Acetone	117	ug/L	23.5	04/08/16 05:38	
EPA 8260B	Benzene	4170	ug/L	178	04/09/16 06:26	
EPA 8260B	2-Butanone (MEK)	113	ug/L	8.3	04/08/16 05:38	
EPA 8260B	n-Butylbenzene	24.5	ug/L	0.28	04/08/16 05:38	
EPA 8260B	sec-Butylbenzene	13.4	ug/L	0.55	04/08/16 05:38	
EPA 8260B	1,2-Dibromoethane (EDB)	14.9	ug/L	0.77	04/08/16 05:38	
EPA 8260B	Ethylbenzene	4100	ug/L	189	04/09/16 06:26	
EPA 8260B	Isopropylbenzene (Cumene)	111	ug/L	0.57	04/08/16 05:38	
EPA 8260B	p-Isopropyltoluene	7.9	ug/L	0.53	04/08/16 05:38	
EPA 8260B	Naphthalene	955	ug/L	116	04/09/16 06:26	
EPA 8260B	n-Propylbenzene	346	ug/L	176	04/09/16 06:26	
EPA 8260B	Styrene	40.2	ug/L	0.37	04/08/16 05:38	
EPA 8260B	Toluene	25100	ug/L	112	04/09/16 06:26	
EPA 8260B	1,2,4-Trimethylbenzene	2860	ug/L	129	04/09/16 06:26	
EPA 8260B	1,3,5-Trimethylbenzene	764	ug/L	163	04/09/16 06:26	
EPA 8260B	Xylene (Total)	21000	ug/L	503	04/09/16 06:26	
ASTM D516	Sulfate	3.6	mg/L	0.96	04/08/16 08:49	
10343520002	**16TSGW05**					
EPA 6010C	Barium	50.7	ug/L	4.1	04/07/16 13:48	
EPA 6010C	Chromium	5.9	ug/L	2.9	04/07/16 13:48	
EPA 6010C	Lead	10.9	ug/L	6.8	04/07/16 13:48	
EPA 8260B	Acetone	3560	ug/L	588	04/08/16 05:53	
EPA 8260B	Benzene	14200	ug/L	178	04/09/16 06:40	
EPA 8260B	2-Butanone (MEK)	2760	ug/L	207	04/08/16 05:53	
EPA 8260B	n-Butylbenzene	512	ug/L	6.9	04/08/16 05:53	
EPA 8260B	sec-Butylbenzene	254	ug/L	13.7	04/08/16 05:53	
EPA 8260B	Chloroform	27.2	ug/L	22.6	04/08/16 05:53	B
EPA 8260B	1,2-Dibromoethane (EDB)	2030	ug/L	19.3	04/08/16 05:53	
EPA 8260B	1,2-Dichloroethane	59.1	ug/L	13.9	04/08/16 05:53	
EPA 8260B	Ethylbenzene	3090	ug/L	189	04/09/16 06:40	
EPA 8260B	Isopropylbenzene (Cumene)	2130	ug/L	14.2	04/08/16 05:53	
EPA 8260B	p-Isopropyltoluene	134	ug/L	13.2	04/08/16 05:53	
EPA 8260B	Naphthalene	586	ug/L	116	04/09/16 06:40	B
EPA 8260B	n-Propylbenzene	237	ug/L	176	04/09/16 06:40	
EPA 8260B	Styrene	500	ug/L	9.2	04/08/16 05:53	
EPA 8260B	Toluene	30100	ug/L	112	04/09/16 06:40	
EPA 8260B	1,2,4-Trimethylbenzene	1950	ug/L	129	04/09/16 06:40	
EPA 8260B	1,3,5-Trimethylbenzene	528	ug/L	163	04/09/16 06:40	
EPA 8260B	Xylene (Total)	16300	ug/L	503	04/09/16 06:40	
EPA 353.2	Nitrate as N	0.021	mg/L	0.020	04/05/16 08:38	FS
EPA 353.2	Nitrogen, NO2 plus NO3	0.028	mg/L	0.020	04/05/16 08:38	
ASTM D516	Sulfate	5.0	mg/L	0.96	04/08/16 08:49	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: Tower
Pace Project No.: 10343520

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Bristol Environmental Remediation Services, LLC
Date: April 18, 2016

General Information:
2 samples were analyzed for EPA 6010C. 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.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 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.

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.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: Tower
Pace Project No.: 10343520

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Bristol Environmental Remediation Services, LLC
Date: April 18, 2016

General Information:
2 samples were analyzed for EPA 7470A. 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.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A 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.

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.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: Tower
Pace Project No.: 10343520

Method: **EPA 8260B**
Description: 8260B VOC
Client: Bristol Environmental Remediation Services, LLC
Date: April 18, 2016

General Information:
3 samples were analyzed for EPA 8260B. 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.

Surrogates:
All surrogates 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.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/35131

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10343439008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2227724)
  - Trichlorofluoromethane
- MSD (Lab ID: 2227725)
  - Dichlorodifluoromethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: Tower
Pace Project No.: 10343520

Method: **EPA 353.2**
Description: 353.2 Nitrate + Nitrite
Client: Bristol Environmental Remediation Services, LLC
Date: April 18, 2016

General Information:
2 samples were analyzed for EPA 353.2. 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.

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.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/26759

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10343012001,10343012003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2223254)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 2223255)
  - Nitrogen, NO2 plus NO3

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

PROJECT NARRATIVE

Project: Tower
Pace Project No.: 10343520

Method: **ASTM D516**
Description: ASTM D516 Sulfate Water
Client: Bristol Environmental Remediation Services, LLC
Date: April 18, 2016

General Information:
2 samples were analyzed for ASTM D516. 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.

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.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/26798

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10343705006,10343718001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2227254)
  - Sulfate
- MSD (Lab ID: 2227255)
  - Sulfate

Additional Comments:

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSGW04 **Lab ID: 10343520001** Collected: 04/03/16 10:10 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3010								
Arsenic	ND	ug/L	13.4	4.0	1	04/04/16 21:36	04/07/16 13:33	7440-38-2	
Barium	**45.0**	ug/L	4.1	1.2	1	04/04/16 21:36	04/07/16 13:33	7440-39-3	
Cadmium	ND	ug/L	2.2	0.65	1	04/04/16 21:36	04/07/16 13:33	7440-43-9	
Chromium	**6.9**	ug/L	2.9	0.87	1	04/04/16 21:36	04/07/16 13:33	7440-47-3	
Lead	**41.1**	ug/L	6.8	2.0	1	04/04/16 21:36	04/07/16 13:33	7439-92-1	
Selenium	ND	ug/L	27.5	8.3	1	04/04/16 21:36	04/07/16 13:33	7782-49-2	
Silver	ND	ug/L	7.8	2.4	1	04/04/16 21:36	04/07/16 13:33	7440-22-4	
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.10	0.031	1	04/04/16 21:00	04/05/16 18:37	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**117**	ug/L	23.5	7.1	1		04/08/16 05:38	67-64-1	
Allyl chloride	ND	ug/L	1.9	0.58	1		04/08/16 05:38	107-05-1	
Benzene	**4170**	ug/L	178	53.5	250		04/09/16 06:26	71-43-2	
Bromobenzene	ND	ug/L	0.82	0.25	1		04/08/16 05:38	108-86-1	
Bromochloromethane	ND	ug/L	1.1	0.34	1		04/08/16 05:38	74-97-5	
Bromodichloromethane	ND	ug/L	0.61	0.18	1		04/08/16 05:38	75-27-4	
Bromoform	ND	ug/L	1.4	0.41	1		04/08/16 05:38	75-25-2	
Bromomethane	ND	ug/L	1.2	0.36	1		04/08/16 05:38	74-83-9	
2-Butanone (MEK)	**113**	ug/L	8.3	2.5	1		04/08/16 05:38	78-93-3	
n-Butylbenzene	**24.5**	ug/L	0.28	0.083	1		04/08/16 05:38	104-51-8	
sec-Butylbenzene	**13.4**	ug/L	0.55	0.16	1		04/08/16 05:38	135-98-8	
tert-Butylbenzene	ND	ug/L	0.62	0.18	1		04/08/16 05:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.2	0.35	1		04/08/16 05:38	56-23-5	
Chlorobenzene	ND	ug/L	0.77	0.23	1		04/08/16 05:38	108-90-7	
Chloroethane	ND	ug/L	1.1	0.34	1		04/08/16 05:38	75-00-3	
Chloroform	ND	ug/L	0.90	0.27	1		04/08/16 05:38	67-66-3	
Chloromethane	ND	ug/L	2.1	0.64	1		04/08/16 05:38	74-87-3	
2-Chlorotoluene	ND	ug/L	0.72	0.22	1		04/08/16 05:38	95-49-8	
4-Chlorotoluene	ND	ug/L	0.79	0.24	1		04/08/16 05:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.3	0.70	1		04/08/16 05:38	96-12-8	
Dibromochloromethane	ND	ug/L	0.53	0.16	1		04/08/16 05:38	124-48-1	
1,2-Dibromoethane (EDB)	**14.9**	ug/L	0.77	0.23	1		04/08/16 05:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.31	1		04/08/16 05:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.75	0.22	1		04/08/16 05:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.71	0.21	1		04/08/16 05:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.54	0.16	1		04/08/16 05:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.6	0.49	1		04/08/16 05:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.75	0.22	1		04/08/16 05:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.56	0.17	1		04/08/16 05:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.74	0.22	1		04/08/16 05:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.83	0.25	1		04/08/16 05:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.70	0.21	1		04/08/16 05:38	156-60-5	
Dichlorofluoromethane	ND	ug/L	0.73	0.22	1		04/08/16 05:38	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.4	0.42	1		04/08/16 05:38	78-87-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSGW04 **Lab ID: 10343520001** Collected: 04/03/16 10:10 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,3-Dichloropropane	ND	ug/L	0.79	0.24	1		04/08/16 05:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.2	0.36	1		04/08/16 05:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.55	0.16	1		04/08/16 05:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.69	0.21	1		04/08/16 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.73	0.22	1		04/08/16 05:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1.2	0.38	1		04/08/16 05:38	60-29-7	
Ethylbenzene	**4100**	ug/L	189	56.8	250		04/09/16 06:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.6	0.48	1		04/08/16 05:38	87-68-3	
Isopropylbenzene (Cumene)	**111**	ug/L	0.57	0.17	1		04/08/16 05:38	98-82-8	
p-Isopropyltoluene	**7.9**	ug/L	0.53	0.16	1		04/08/16 05:38	99-87-6	
Methylene Chloride	ND	ug/L	1.9	0.56	1		04/08/16 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.1	2.4	1		04/08/16 05:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	0.67	0.20	1		04/08/16 05:38	1634-04-4	
Naphthalene	**955**	ug/L	116	34.8	250		04/09/16 06:26	91-20-3	
n-Propylbenzene	**346**	ug/L	176	53.0	250		04/09/16 06:26	103-65-1	
Styrene	**40.2**	ug/L	0.37	0.11	1		04/08/16 05:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.65	0.20	1		04/08/16 05:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.74	0.22	1		04/08/16 05:38	79-34-5	
Tetrachloroethene	ND	ug/L	0.64	0.19	1		04/08/16 05:38	127-18-4	
Tetrahydrofuran	ND	ug/L	13.5	4.0	1		04/08/16 05:38	109-99-9	
Toluene	**25100**	ug/L	112	33.5	250		04/09/16 06:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	0.77	0.23	1		04/08/16 05:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.74	0.22	1		04/08/16 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.68	0.20	1		04/08/16 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.80	0.24	1		04/08/16 05:38	79-00-5	
Trichloroethene	ND	ug/L	0.47	0.14	1		04/08/16 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.61	0.18	1		04/08/16 05:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.7	0.50	1		04/08/16 05:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.4	0.42	1		04/08/16 05:38	76-13-1	
1,2,4-Trimethylbenzene	**2860**	ug/L	129	38.8	250		04/09/16 06:26	95-63-6	
1,3,5-Trimethylbenzene	**764**	ug/L	163	49.0	250		04/09/16 06:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.15	1		04/08/16 05:38	75-01-4	
Xylene (Total)	**21000**	ug/L	503	151	250		04/09/16 06:26	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	121	%.	75-125		1		04/08/16 05:38	17060-07-0	
Toluene-d8 (S)	87	%.	75-125		1		04/08/16 05:38	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		04/08/16 05:38	460-00-4	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2								
Nitrate as N	ND	mg/L	0.020	0.010	1		04/05/16 08:37	14797-55-8	FS
Nitrite as N	ND	mg/L	0.020	0.0043	1		04/05/16 08:37	14797-65-0	
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	0.0074	1		04/05/16 08:37		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**3.6**	mg/L	0.96	0.29	1		04/08/16 08:49	14808-79-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSGW05 **Lab ID: 10343520002** Collected: 04/03/16 11:35 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3010								
Arsenic	ND	ug/L	13.4	4.0	1	04/04/16 21:36	04/07/16 13:48	7440-38-2	
Barium	**50.7**	ug/L	4.1	1.2	1	04/04/16 21:36	04/07/16 13:48	7440-39-3	
Cadmium	ND	ug/L	2.2	0.65	1	04/04/16 21:36	04/07/16 13:48	7440-43-9	
Chromium	**5.9**	ug/L	2.9	0.87	1	04/04/16 21:36	04/07/16 13:48	7440-47-3	
Lead	**10.9**	ug/L	6.8	2.0	1	04/04/16 21:36	04/07/16 13:48	7439-92-1	
Selenium	ND	ug/L	27.5	8.3	1	04/04/16 21:36	04/07/16 13:48	7782-49-2	
Silver	ND	ug/L	7.8	2.4	1	04/04/16 21:36	04/07/16 13:48	7440-22-4	
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.10	0.031	1	04/04/16 21:00	04/05/16 18:39	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**3560**	ug/L	588	176	25		04/08/16 05:53	67-64-1	
Allyl chloride	ND	ug/L	48.5	14.6	25		04/08/16 05:53	107-05-1	
Benzene	**14200**	ug/L	178	53.5	250		04/09/16 06:40	71-43-2	
Bromobenzene	ND	ug/L	20.6	6.2	25		04/08/16 05:53	108-86-1	
Bromochloromethane	ND	ug/L	28.4	8.5	25		04/08/16 05:53	74-97-5	
Bromodichloromethane	ND	ug/L	15.2	4.6	25		04/08/16 05:53	75-27-4	
Bromoform	ND	ug/L	33.9	10.2	25		04/08/16 05:53	75-25-2	
Bromomethane	ND	ug/L	29.7	8.9	25		04/08/16 05:53	74-83-9	
2-Butanone (MEK)	**2760**	ug/L	207	62.2	25		04/08/16 05:53	78-93-3	
n-Butylbenzene	**512**	ug/L	6.9	2.1	25		04/08/16 05:53	104-51-8	
sec-Butylbenzene	**254**	ug/L	13.7	4.1	25		04/08/16 05:53	135-98-8	
tert-Butylbenzene	ND	ug/L	15.4	4.6	25		04/08/16 05:53	98-06-6	
Carbon tetrachloride	ND	ug/L	29.3	8.8	25		04/08/16 05:53	56-23-5	
Chlorobenzene	ND	ug/L	19.2	5.8	25		04/08/16 05:53	108-90-7	
Chloroethane	ND	ug/L	28.1	8.4	25		04/08/16 05:53	75-00-3	
Chloroform	**27.2**	ug/L	22.6	6.8	25		04/08/16 05:53	67-66-3	B
Chloromethane	ND	ug/L	52.9	15.9	25		04/08/16 05:53	74-87-3	
2-Chlorotoluene	ND	ug/L	17.9	5.4	25		04/08/16 05:53	95-49-8	
4-Chlorotoluene	ND	ug/L	19.8	6.0	25		04/08/16 05:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	58.2	17.5	25		04/08/16 05:53	96-12-8	
Dibromochloromethane	ND	ug/L	13.3	4.0	25		04/08/16 05:53	124-48-1	
1,2-Dibromoethane (EDB)	**2030**	ug/L	19.3	5.8	25		04/08/16 05:53	106-93-4	
Dibromomethane	ND	ug/L	25.7	7.7	25		04/08/16 05:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	18.6	5.6	25		04/08/16 05:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	17.8	5.4	25		04/08/16 05:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	13.5	4.0	25		04/08/16 05:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	40.9	12.3	25		04/08/16 05:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	18.7	5.6	25		04/08/16 05:53	75-34-3	
1,2-Dichloroethane	**59.1**	ug/L	13.9	4.2	25		04/08/16 05:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	18.4	5.5	25		04/08/16 05:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	20.8	6.2	25		04/08/16 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	17.4	5.2	25		04/08/16 05:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	18.3	5.5	25		04/08/16 05:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	35.1	10.6	25		04/08/16 05:53	78-87-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSGW05 **Lab ID: 10343520002** Collected: 04/03/16 11:35 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,3-Dichloropropane	ND	ug/L	19.8	6.0	25		04/08/16 05:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	29.9	9.0	25		04/08/16 05:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	13.7	4.1	25		04/08/16 05:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	17.2	5.2	25		04/08/16 05:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	18.2	5.5	25		04/08/16 05:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	31.2	9.4	25		04/08/16 05:53	60-29-7	
Ethylbenzene	**3090**	ug/L	189	56.8	250		04/09/16 06:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	12.0	25		04/08/16 05:53	87-68-3	
Isopropylbenzene (Cumene)	**2130**	ug/L	14.2	4.2	25		04/08/16 05:53	98-82-8	
p-Isopropyltoluene	**134**	ug/L	13.2	4.0	25		04/08/16 05:53	99-87-6	
Methylene Chloride	ND	ug/L	47.0	14.1	25		04/08/16 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	202	60.8	25		04/08/16 05:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	16.6	5.0	25		04/08/16 05:53	1634-04-4	
Naphthalene	**586**	ug/L	116	34.8	250		04/09/16 06:40	91-20-3	B
n-Propylbenzene	**237**	ug/L	176	53.0	250		04/09/16 06:40	103-65-1	
Styrene	**500**	ug/L	9.2	2.8	25		04/08/16 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	16.2	4.9	25		04/08/16 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	18.4	5.5	25		04/08/16 05:53	79-34-5	
Tetrachloroethene	ND	ug/L	15.9	4.8	25		04/08/16 05:53	127-18-4	
Tetrahydrofuran	ND	ug/L	337	101	25		04/08/16 05:53	109-99-9	
Toluene	**30100**	ug/L	112	33.5	250		04/09/16 06:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	19.1	5.8	25		04/08/16 05:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	18.6	5.6	25		04/08/16 05:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	16.9	5.1	25		04/08/16 05:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.1	6.0	25		04/08/16 05:53	79-00-5	
Trichloroethene	ND	ug/L	11.7	3.5	25		04/08/16 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	15.3	4.6	25		04/08/16 05:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	41.9	12.6	25		04/08/16 05:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	35.0	10.5	25		04/08/16 05:53	76-13-1	
1,2,4-Trimethylbenzene	**1950**	ug/L	129	38.8	250		04/09/16 06:40	95-63-6	
1,3,5-Trimethylbenzene	**528**	ug/L	163	49.0	250		04/09/16 06:40	108-67-8	
Vinyl chloride	ND	ug/L	25.0	3.6	25		04/08/16 05:53	75-01-4	
Xylene (Total)	**16300**	ug/L	503	151	250		04/09/16 06:40	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%.	75-125		25		04/08/16 05:53	17060-07-0	
Toluene-d8 (S)	77	%.	75-125		25		04/08/16 05:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		25		04/08/16 05:53	460-00-4	
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2								
Nitrate as N	**0.021**	mg/L	0.020	0.010	1		04/05/16 08:38	14797-55-8	FS
Nitrite as N	ND	mg/L	0.020	0.0043	1		04/05/16 08:38	14797-65-0	
Nitrogen, NO2 plus NO3	**0.028**	mg/L	0.020	0.0074	1		04/05/16 08:38		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**5.0**	mg/L	0.96	0.29	1		04/08/16 08:49	14808-79-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSTB02 **Lab ID: 10343520003** Collected: 04/03/16 00:00 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	23.5	7.1	1		04/08/16 21:03	67-64-1	
Allyl chloride	ND	ug/L	1.9	0.58	1		04/08/16 21:03	107-05-1	
Benzene	ND	ug/L	0.71	0.21	1		04/08/16 21:03	71-43-2	
Bromobenzene	ND	ug/L	0.82	0.25	1		04/08/16 21:03	108-86-1	
Bromochloromethane	ND	ug/L	1.1	0.34	1		04/08/16 21:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.61	0.18	1		04/08/16 21:03	75-27-4	
Bromoform	ND	ug/L	1.4	0.41	1		04/08/16 21:03	75-25-2	
Bromomethane	ND	ug/L	1.2	0.36	1		04/08/16 21:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	8.3	2.5	1		04/08/16 21:03	78-93-3	
n-Butylbenzene	ND	ug/L	0.28	0.083	1		04/08/16 21:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.55	0.16	1		04/08/16 21:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.62	0.18	1		04/08/16 21:03	98-06-6	
Carbon tetrachloride	ND	ug/L	1.2	0.35	1		04/08/16 21:03	56-23-5	
Chlorobenzene	ND	ug/L	0.77	0.23	1		04/08/16 21:03	108-90-7	
Chloroethane	ND	ug/L	1.1	0.34	1		04/08/16 21:03	75-00-3	
Chloroform	ND	ug/L	0.90	0.27	1		04/08/16 21:03	67-66-3	
Chloromethane	ND	ug/L	2.1	0.64	1		04/08/16 21:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.72	0.22	1		04/08/16 21:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.79	0.24	1		04/08/16 21:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.3	0.70	1		04/08/16 21:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.53	0.16	1		04/08/16 21:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.77	0.23	1		04/08/16 21:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.31	1		04/08/16 21:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.75	0.22	1		04/08/16 21:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.71	0.21	1		04/08/16 21:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.54	0.16	1		04/08/16 21:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.6	0.49	1		04/08/16 21:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.75	0.22	1		04/08/16 21:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.56	0.17	1		04/08/16 21:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.74	0.22	1		04/08/16 21:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.83	0.25	1		04/08/16 21:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.70	0.21	1		04/08/16 21:03	156-60-5	
Dichlorofluoromethane	ND	ug/L	0.73	0.22	1		04/08/16 21:03	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.4	0.42	1		04/08/16 21:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.79	0.24	1		04/08/16 21:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.2	0.36	1		04/08/16 21:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.55	0.16	1		04/08/16 21:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.69	0.21	1		04/08/16 21:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.73	0.22	1		04/08/16 21:03	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	1.2	0.38	1		04/08/16 21:03	60-29-7	
Ethylbenzene	ND	ug/L	0.76	0.23	1		04/08/16 21:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.6	0.48	1		04/08/16 21:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.57	0.17	1		04/08/16 21:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.53	0.16	1		04/08/16 21:03	99-87-6	
Methylene Chloride	ND	ug/L	1.9	0.56	1		04/08/16 21:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	8.1	2.4	1		04/08/16 21:03	108-10-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ANALYTICAL RESULTS

Project: Tower
Pace Project No.: 10343520

Sample: 16TSTB02 **Lab ID: 10343520003** Collected: 04/03/16 00:00 Received: 04/04/16 10:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Methyl-tert-butyl ether	ND	ug/L	0.67	0.20	1		04/08/16 21:03	1634-04-4	
Naphthalene	ND	ug/L	0.46	0.14	1		04/08/16 21:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.71	0.21	1		04/08/16 21:03	103-65-1	
Styrene	ND	ug/L	0.37	0.11	1		04/08/16 21:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.65	0.20	1		04/08/16 21:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.74	0.22	1		04/08/16 21:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.64	0.19	1		04/08/16 21:03	127-18-4	
Tetrahydrofuran	ND	ug/L	13.5	4.0	1		04/08/16 21:03	109-99-9	
Toluene	ND	ug/L	0.45	0.13	1		04/08/16 21:03	108-88-3	B
1,2,3-Trichlorobenzene	ND	ug/L	0.77	0.23	1		04/08/16 21:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.74	0.22	1		04/08/16 21:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.68	0.20	1		04/08/16 21:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.80	0.24	1		04/08/16 21:03	79-00-5	
Trichloroethene	ND	ug/L	0.47	0.14	1		04/08/16 21:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.61	0.18	1		04/08/16 21:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.7	0.50	1		04/08/16 21:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.4	0.42	1		04/08/16 21:03	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	0.52	0.16	1		04/08/16 21:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.65	0.20	1		04/08/16 21:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.15	1		04/08/16 21:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.60	1		04/08/16 21:03	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%.	75-125		1		04/08/16 21:03	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1		04/08/16 21:03	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/08/16 21:03	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: MERP/16290 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470A Mercury Water
Associated Lab Samples: 10343520001, 10343520002

METHOD BLANK: 2223436 | Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.10	04/05/16 18:26	

LABORATORY CONTROL SAMPLE: 2223437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223438 2223439

Parameter	Units	10343568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.9	96	97	80-120	1	20	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: MPRP/62397 | Analysis Method: EPA 6010C
QC Batch Method: EPA 3010 | Analysis Description: 6010C Water
Associated Lab Samples: 10343520001, 10343520002

METHOD BLANK: 2223440 | Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	13.4	04/07/16 13:27	
Barium	ug/L	ND	4.1	04/07/16 13:27	
Cadmium	ug/L	ND	2.2	04/07/16 13:27	
Chromium	ug/L	ND	2.9	04/07/16 13:27	
Lead	ug/L	ND	6.8	04/07/16 13:27	
Selenium	ug/L	ND	27.5	04/07/16 13:27	
Silver	ug/L	ND	7.8	04/07/16 13:27	

LABORATORY CONTROL SAMPLE: 2223441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	951	95	80-120	
Barium	ug/L	1000	989	99	80-120	
Cadmium	ug/L	1000	970	97	80-120	
Chromium	ug/L	1000	967	97	80-120	
Lead	ug/L	1000	984	98	80-120	
Selenium	ug/L	1000	979	98	80-120	
Silver	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223442 2223443

Parameter	Units	10343520001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1010	977	101	97	75-125	4	20	
Barium	ug/L	45.0	1000	1000	1040	1000	100	96	75-125	4	20	
Cadmium	ug/L	ND	1000	1000	1010	974	101	97	75-125	4	20	
Chromium	ug/L	6.9	1000	1000	997	960	99	95	75-125	4	20	
Lead	ug/L	41.1	1000	1000	1030	990	99	95	75-125	4	20	
Selenium	ug/L	ND	1000	1000	1030	985	103	98	75-125	4	20	
Silver	ug/L	ND	500	500	506	487	101	97	75-125	4	20	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

EPA-R5-2017-010506_0002557

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: MSV/35131 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10343520001, 10343520002

METHOD BLANK: 2226758 | Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.65	04/07/16 23:12	
1,1,1-Trichloroethane	ug/L	ND	0.68	04/07/16 23:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.74	04/07/16 23:12	
1,1,2-Trichloroethane	ug/L	ND	0.80	04/07/16 23:12	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.4	04/07/16 23:12	
1,1-Dichloroethane	ug/L	ND	0.75	04/07/16 23:12	
1,1-Dichloroethene	ug/L	ND	0.74	04/07/16 23:12	
1,1-Dichloropropene	ug/L	ND	0.55	04/07/16 23:12	
1,2,3-Trichlorobenzene	ug/L	ND	0.77	04/07/16 23:12	
1,2,3-Trichloropropane	ug/L	ND	1.7	04/07/16 23:12	
1,2,4-Trichlorobenzene	ug/L	ND	0.74	04/07/16 23:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.52	04/07/16 23:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.3	04/07/16 23:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.77	04/07/16 23:12	
1,2-Dichlorobenzene	ug/L	ND	0.75	04/07/16 23:12	
1,2-Dichloroethane	ug/L	ND	0.56	04/07/16 23:12	
1,2-Dichloropropane	ug/L	ND	1.4	04/07/16 23:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.65	04/07/16 23:12	
1,3-Dichlorobenzene	ug/L	ND	0.71	04/07/16 23:12	
1,3-Dichloropropane	ug/L	ND	0.79	04/07/16 23:12	
1,4-Dichlorobenzene	ug/L	ND	0.54	04/07/16 23:12	
2,2-Dichloropropane	ug/L	ND	1.2	04/07/16 23:12	
2-Butanone (MEK)	ug/L	ND	8.3	04/07/16 23:12	
2-Chlorotoluene	ug/L	ND	0.72	04/07/16 23:12	
4-Chlorotoluene	ug/L	ND	0.79	04/07/16 23:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	8.1	04/07/16 23:12	
Acetone	ug/L	ND	23.5	04/07/16 23:12	
Allyl chloride	ug/L	ND	1.9	04/07/16 23:12	
Benzene	ug/L	ND	0.71	04/07/16 23:12	
Bromobenzene	ug/L	ND	0.82	04/07/16 23:12	
Bromochloromethane	ug/L	ND	1.1	04/07/16 23:12	
Bromodichloromethane	ug/L	ND	0.61	04/07/16 23:12	
Bromoform	ug/L	ND	1.4	04/07/16 23:12	
Bromomethane	ug/L	ND	1.2	04/07/16 23:12	
Carbon tetrachloride	ug/L	ND	1.2	04/07/16 23:12	
Chlorobenzene	ug/L	ND	0.77	04/07/16 23:12	
Chloroethane	ug/L	ND	1.1	04/07/16 23:12	
Chloroform	ug/L	ND	0.90	04/07/16 23:12	
Chloromethane	ug/L	ND	2.1	04/07/16 23:12	
cis-1,2-Dichloroethene	ug/L	ND	0.83	04/07/16 23:12	
cis-1,3-Dichloropropene	ug/L	ND	0.69	04/07/16 23:12	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

METHOD BLANK: 2226758 Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	0.53	04/07/16 23:12	
Dibromomethane	ug/L	ND	1.0	04/07/16 23:12	
Dichlorodifluoromethane	ug/L	ND	1.6	04/07/16 23:12	
Dichlorofluoromethane	ug/L	ND	0.73	04/07/16 23:12	
Diethyl ether (Ethyl ether)	ug/L	ND	1.2	04/07/16 23:12	
Ethylbenzene	ug/L	ND	0.76	04/07/16 23:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.6	04/07/16 23:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.57	04/07/16 23:12	
Methyl-tert-butyl ether	ug/L	ND	0.67	04/07/16 23:12	
Methylene Chloride	ug/L	ND	1.9	04/07/16 23:12	
n-Butylbenzene	ug/L	ND	0.28	04/07/16 23:12	
n-Propylbenzene	ug/L	ND	0.71	04/07/16 23:12	
Naphthalene	ug/L	ND	0.46	04/07/16 23:12	
p-Isopropyltoluene	ug/L	ND	0.53	04/07/16 23:12	
sec-Butylbenzene	ug/L	ND	0.55	04/07/16 23:12	
Styrene	ug/L	ND	0.37	04/07/16 23:12	
tert-Butylbenzene	ug/L	ND	0.62	04/07/16 23:12	
Tetrachloroethene	ug/L	ND	0.64	04/07/16 23:12	
Tetrahydrofuran	ug/L	ND	13.5	04/07/16 23:12	
Toluene	ug/L	ND	0.45	04/07/16 23:12	
trans-1,2-Dichloroethene	ug/L	ND	0.70	04/07/16 23:12	
trans-1,3-Dichloropropene	ug/L	ND	0.73	04/07/16 23:12	
Trichloroethene	ug/L	ND	0.47	04/07/16 23:12	
Trichlorofluoromethane	ug/L	ND	0.61	04/07/16 23:12	
Vinyl chloride	ug/L	ND	1.0	04/07/16 23:12	
Xylene (Total)	ug/L	ND	2.0	04/07/16 23:12	
1,2-Dichloroethane-d4 (S)	%.	102	75-125	04/07/16 23:12	
4-Bromofluorobenzene (S)	%.	100	75-125	04/07/16 23:12	
Toluene-d8 (S)	%.	102	75-125	04/07/16 23:12	

LABORATORY CONTROL SAMPLE: 2226759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	75-125	
1,1,1-Trichloroethane	ug/L	50	44.7	89	73-125	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	75-128	
1,1,2-Trichloroethane	ug/L	50	47.8	96	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.7	93	69-125	
1,1-Dichloroethane	ug/L	50	42.1	84	75-131	
1,1-Dichloroethene	ug/L	50	47.5	95	72-125	
1,1-Dichloropropene	ug/L	50	45.8	92	74-125	
1,2,3-Trichlorobenzene	ug/L	50	47.6	95	68-127	
1,2,3-Trichloropropane	ug/L	50	52.1	104	75-125	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	70-125	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

LABORATORY CONTROL SAMPLE: 2226759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.9	100	75-130	
1,2-Dibromo-3-chloropropane	ug/L	125	127	102	74-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	75-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	75-125	
1,2-Dichloroethane	ug/L	50	43.9	88	72-129	
1,2-Dichloropropane	ug/L	50	47.3	95	71-129	
1,3,5-Trimethylbenzene	ug/L	50	49.1	98	75-127	
1,3-Dichlorobenzene	ug/L	50	47.9	96	75-125	
1,3-Dichloropropane	ug/L	50	48.7	97	75-125	
1,4-Dichlorobenzene	ug/L	50	45.3	91	75-125	
2,2-Dichloropropane	ug/L	50	38.7	77	71-125	
2-Butanone (MEK)	ug/L	250	246	98	58-150	
2-Chlorotoluene	ug/L	50	47.2	94	75-125	
4-Chlorotoluene	ug/L	50	47.7	95	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	250	272	109	72-140	
Acetone	ug/L	250	241	97	69-137	
Allyl chloride	ug/L	50	45.7	91	68-132	
Benzene	ug/L	50	44.4	89	75-125	
Bromobenzene	ug/L	50	48.4	97	75-125	
Bromochloromethane	ug/L	50	45.9	92	75-125	
Bromodichloromethane	ug/L	50	48.6	97	69-128	
Bromoform	ug/L	50	42.1	84	75-125	
Bromomethane	ug/L	50	35.0	70	30-150	
Carbon tetrachloride	ug/L	50	50.4	101	74-125	
Chlorobenzene	ug/L	50	48.0	96	75-125	
Chloroethane	ug/L	50	43.4	87	60-150	
Chloroform	ug/L	50	42.5	85	75-126	
Chloromethane	ug/L	50	38.4	77	46-150	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	75-126	
cis-1,3-Dichloropropene	ug/L	50	47.8	96	75-125	
Dibromochloromethane	ug/L	50	49.1	98	75-125	
Dibromomethane	ug/L	50	51.0	102	72-127	
Dichlorodifluoromethane	ug/L	50	47.4	95	58-135	
Dichlorofluoromethane	ug/L	50	50.0	100	68-149	
Diethyl ether (Ethyl ether)	ug/L	50	45.1	90	66-144	
Ethylbenzene	ug/L	50	46.2	92	75-125	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	73-125	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	69-140	
Methyl-tert-butyl ether	ug/L	50	46.1	92	75-126	
Methylene Chloride	ug/L	50	41.7	83	71-130	
n-Butylbenzene	ug/L	50	50.0	100	71-129	
n-Propylbenzene	ug/L	50	46.7	93	71-133	
Naphthalene	ug/L	50	49.9	100	59-137	
p-Isopropyltoluene	ug/L	50	48.5	97	74-127	
sec-Butylbenzene	ug/L	50	47.3	95	66-140	
Styrene	ug/L	50	50.4	101	75-125	
tert-Butylbenzene	ug/L	50	46.0	92	73-129	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

LABORATORY CONTROL SAMPLE: 2226759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	46.4	93	75-125	
Tetrahydrofuran	ug/L	500	480	96	71-129	
Toluene	ug/L	50	48.1	96	75-125	
trans-1,2-Dichloroethene	ug/L	50	43.9	88	75-125	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	75-125	
Trichloroethene	ug/L	50	45.7	91	75-125	
Trichlorofluoromethane	ug/L	50	55.9	112	74-128	
Vinyl chloride	ug/L	50	47.2	94	71-131	
Xylene (Total)	ug/L	150	142	94	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2227724 2227725

Parameter	Units	10343439008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	23.3	23.9	116	119	75-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.6	23.3	113	116	71-144	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.7	21.4	109	107	75-131	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	21.9	109	109	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	24.6	23.1	123	115	75-150	7	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.6	20.4	103	102	64-150	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	21.0	104	105	68-150	0	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.6	20.5	103	102	68-145	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.5	19.6	92	98	57-142	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	23.8	22.9	119	115	75-125	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	19.3	95	96	60-135	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.8	20.9	108	104	67-148	4	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.7	51.1	99	102	32-137	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.2	21.7	111	109	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.7	20.8	109	104	75-125	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	19.7	99	97	62-138	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	21.4	21.7	107	109	62-144	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.7	21.2	108	106	67-148	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.8	20.6	104	102	74-131	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.7	21.7	108	108	75-127	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	19.6	99	98	74-126	1	30	
2,2-Dichloropropane	ug/L	ND	20	20	18.7	19.1	93	95	56-146	2	30	
2-Butanone (MEK)	ug/L	ND	100	100	110	114	108	112	47-150	3	30	
2-Chlorotoluene	ug/L	ND	20	20	21.4	20.4	107	102	74-137	5	30	
4-Chlorotoluene	ug/L	ND	20	20	21.4	20.3	107	102	72-138	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	121	122	120	122	60-147	2	30	
Acetone	ug/L	32.2	100	100	124	137	92	105	61-150	10	30	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2227724 2227725

Parameter	Units	10343439008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	20	20	19.2	20.0	96	100	53-150	4	30	
Benzene	ug/L	ND	20	20	19.5	19.5	97	97	52-147	0	30	
Bromobenzene	ug/L	ND	20	20	21.5	20.5	108	103	75-129	5	30	
Bromochloromethane	ug/L	ND	20	20	20.3	20.8	102	104	72-128	2	30	
Bromodichloromethane	ug/L	ND	20	20	22.0	22.4	110	112	65-137	1	30	
Bromoform	ug/L	ND	20	20	18.3	17.7	92	88	59-133	4	30	
Bromomethane	ug/L	ND	20	20	20.7	23.3	104	116	30-150	12	30	
Carbon tetrachloride	ug/L	ND	20	20	23.4	23.5	117	117	73-144	0	30	
Chlorobenzene	ug/L	ND	20	20	21.4	21.1	107	105	75-126	1	30	
Chloroethane	ug/L	ND	20	20	27.2	28.9	136	144	55-150	6	30	
Chloroform	ug/L	ND	20	20	20.0	20.6	100	103	66-143	3	30	
Chloromethane	ug/L	ND	20	20	22.8	25.2	114	126	42-150	10	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.3	101	102	65-143	0	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.2	19.4	101	97	75-125	4	30	
Dibromochloromethane	ug/L	ND	20	20	20.7	20.4	104	102	75-125	2	30	
Dibromomethane	ug/L	ND	20	20	22.7	22.2	114	111	66-133	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	29.1	30.2	145	151	74-150	4	30	M1
Dichlorofluoromethane	ug/L	ND	20	20	28.2	31.4	141	157	68-150	11	30	M1
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	19.7	19.2	99	96	57-148	3	30	
Ethylbenzene	ug/L	ND	20	20	21.1	20.4	104	101	67-149	3	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.1	21.4	101	107	65-143	6	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.2	21.9	111	110	64-150	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.1	20.6	105	103	71-130	2	30	
Methylene Chloride	ug/L	ND	20	20	18.0	17.2	90	86	67-137	5	30	
n-Butylbenzene	ug/L	ND	20	20	20.8	21.5	104	107	70-138	3	30	
n-Propylbenzene	ug/L	ND	20	20	21.6	20.9	108	104	70-148	3	30	
Naphthalene	ug/L	ND	20	20	18.3	19.3	91	96	39-150	5	30	
p-Isopropyltoluene	ug/L	ND	20	20	21.2	21.1	106	105	74-138	1	30	
sec-Butylbenzene	ug/L	ND	20	20	20.9	21.2	105	106	64-150	1	30	
Styrene	ug/L	ND	20	20	21.6	21.1	107	105	75-132	2	30	
tert-Butylbenzene	ug/L	ND	20	20	21.3	20.8	106	104	75-138	2	30	
Tetrachloroethene	ug/L	ND	20	20	21.9	21.5	110	108	73-136	2	30	
Tetrahydrofuran	ug/L	31.9	200	200	221	235	94	102	68-142	6	30	
Toluene	ug/L	ND	20	20	21.7	21.3	106	103	69-139	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.6	17.7	93	88	75-135	5	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.4	21.7	102	108	66-136	6	30	
Trichloroethene	ug/L	ND	20	20	20.8	21.1	104	106	74-135	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	31.7	34.1	159	170	75-150	7	30	M1
Vinyl chloride	ug/L	ND	20	20	27.2	28.9	136	145	69-150	6	30	
Xylene (Total)	ug/L	ND	60	60	64.4	62.7	107	104	70-147	3	30	
1,2-Dichloroethane-d4 (S)	%.						108	107	75-125			pH
4-Bromofluorobenzene (S)	%.						101	99	75-125			
Toluene-d8 (S)	%.						103	103	75-125			

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: MSV/35147
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10343520003

METHOD BLANK: 2227416
Matrix: Water
Associated Lab Samples: 10343520003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.65	04/08/16 18:05	
1,1,1-Trichloroethane	ug/L	ND	0.68	04/08/16 18:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.74	04/08/16 18:05	
1,1,2-Trichloroethane	ug/L	ND	0.80	04/08/16 18:05	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.4	04/08/16 18:05	
1,1-Dichloroethane	ug/L	ND	0.75	04/08/16 18:05	
1,1-Dichloroethene	ug/L	ND	0.74	04/08/16 18:05	
1,1-Dichloropropene	ug/L	ND	0.55	04/08/16 18:05	
1,2,3-Trichlorobenzene	ug/L	ND	0.77	04/08/16 18:05	
1,2,3-Trichloropropane	ug/L	ND	1.7	04/08/16 18:05	
1,2,4-Trichlorobenzene	ug/L	ND	0.74	04/08/16 18:05	
1,2,4-Trimethylbenzene	ug/L	ND	0.52	04/08/16 18:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.3	04/08/16 18:05	
1,2-Dibromoethane (EDB)	ug/L	ND	0.77	04/08/16 18:05	
1,2-Dichlorobenzene	ug/L	ND	0.75	04/08/16 18:05	
1,2-Dichloroethane	ug/L	ND	0.56	04/08/16 18:05	
1,2-Dichloropropane	ug/L	ND	1.4	04/08/16 18:05	
1,3,5-Trimethylbenzene	ug/L	ND	0.65	04/08/16 18:05	
1,3-Dichlorobenzene	ug/L	ND	0.71	04/08/16 18:05	
1,3-Dichloropropane	ug/L	ND	0.79	04/08/16 18:05	
1,4-Dichlorobenzene	ug/L	ND	0.54	04/08/16 18:05	
2,2-Dichloropropane	ug/L	ND	1.2	04/08/16 18:05	
2-Butanone (MEK)	ug/L	ND	8.3	04/08/16 18:05	
2-Chlorotoluene	ug/L	ND	0.72	04/08/16 18:05	
4-Chlorotoluene	ug/L	ND	0.79	04/08/16 18:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	8.1	04/08/16 18:05	
Acetone	ug/L	ND	23.5	04/08/16 18:05	
Allyl chloride	ug/L	ND	1.9	04/08/16 18:05	
Benzene	ug/L	ND	0.71	04/08/16 18:05	
Bromobenzene	ug/L	ND	0.82	04/08/16 18:05	
Bromochloromethane	ug/L	ND	1.1	04/08/16 18:05	
Bromodichloromethane	ug/L	ND	0.61	04/08/16 18:05	
Bromoform	ug/L	ND	1.4	04/08/16 18:05	
Bromomethane	ug/L	ND	1.2	04/08/16 18:05	
Carbon tetrachloride	ug/L	ND	1.2	04/08/16 18:05	
Chlorobenzene	ug/L	ND	0.77	04/08/16 18:05	
Chloroethane	ug/L	ND	1.1	04/08/16 18:05	
Chloroform	ug/L	ND	0.90	04/08/16 18:05	
Chloromethane	ug/L	ND	2.1	04/08/16 18:05	
cis-1,2-Dichloroethene	ug/L	ND	0.83	04/08/16 18:05	
cis-1,3-Dichloropropene	ug/L	ND	0.69	04/08/16 18:05	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

METHOD BLANK: 2227416 Matrix: Water
Associated Lab Samples: 10343520003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	0.53	04/08/16 18:05	
Dibromomethane	ug/L	ND	1.0	04/08/16 18:05	
Dichlorodifluoromethane	ug/L	ND	1.6	04/08/16 18:05	
Dichlorofluoromethane	ug/L	ND	0.73	04/08/16 18:05	
Diethyl ether (Ethyl ether)	ug/L	ND	1.2	04/08/16 18:05	
Ethylbenzene	ug/L	ND	0.76	04/08/16 18:05	
Hexachloro-1,3-butadiene	ug/L	ND	1.6	04/08/16 18:05	
Isopropylbenzene (Cumene)	ug/L	ND	0.57	04/08/16 18:05	
Methyl-tert-butyl ether	ug/L	ND	0.67	04/08/16 18:05	
Methylene Chloride	ug/L	ND	1.9	04/08/16 18:05	
n-Butylbenzene	ug/L	ND	0.28	04/08/16 18:05	
n-Propylbenzene	ug/L	ND	0.71	04/08/16 18:05	
Naphthalene	ug/L	ND	0.46	04/08/16 18:05	
p-Isopropyltoluene	ug/L	ND	0.53	04/08/16 18:05	
sec-Butylbenzene	ug/L	ND	0.55	04/08/16 18:05	
Styrene	ug/L	ND	0.37	04/08/16 18:05	
tert-Butylbenzene	ug/L	ND	0.62	04/08/16 18:05	
Tetrachloroethene	ug/L	ND	0.64	04/08/16 18:05	
Tetrahydrofuran	ug/L	ND	13.5	04/08/16 18:05	
Toluene	ug/L	ND	0.45	04/08/16 18:05	
trans-1,2-Dichloroethene	ug/L	ND	0.70	04/08/16 18:05	
trans-1,3-Dichloropropene	ug/L	ND	0.73	04/08/16 18:05	
Trichloroethene	ug/L	ND	0.47	04/08/16 18:05	
Trichlorofluoromethane	ug/L	ND	0.61	04/08/16 18:05	
Vinyl chloride	ug/L	ND	1.0	04/08/16 18:05	
Xylene (Total)	ug/L	ND	2.0	04/08/16 18:05	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	04/08/16 18:05	
4-Bromofluorobenzene (S)	%.	97	75-125	04/08/16 18:05	
Toluene-d8 (S)	%.	102	75-125	04/08/16 18:05	

LABORATORY CONTROL SAMPLE: 2227417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	105	75-125	
1,1,1-Trichloroethane	ug/L	20	18.4	92	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	75-128	
1,1,2-Trichloroethane	ug/L	20	18.8	94	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.6	88	69-125	
1,1-Dichloroethane	ug/L	20	17.4	87	75-131	
1,1-Dichloroethene	ug/L	20	19.3	97	72-125	
1,1-Dichloropropene	ug/L	20	18.6	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.5	92	68-127	
1,2,3-Trichloropropane	ug/L	20	21.9	110	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.6	93	70-125	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

LABORATORY CONTROL SAMPLE: 2227417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	104	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.9	104	74-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	105	75-125	
1,2-Dichlorobenzene	ug/L	20	19.5	98	75-125	
1,2-Dichloroethane	ug/L	20	18.0	90	72-129	
1,2-Dichloropropane	ug/L	20	19.4	97	71-129	
1,3,5-Trimethylbenzene	ug/L	20	20.2	101	75-127	
1,3-Dichlorobenzene	ug/L	20	19.4	97	75-125	
1,3-Dichloropropane	ug/L	20	19.5	97	75-125	
1,4-Dichlorobenzene	ug/L	20	19.1	96	75-125	
2,2-Dichloropropane	ug/L	20	18.2	91	71-125	
2-Butanone (MEK)	ug/L	100	108	108	58-150	
2-Chlorotoluene	ug/L	20	19.6	98	75-125	
4-Chlorotoluene	ug/L	20	19.6	98	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	72-140	
Acetone	ug/L	100	102	102	69-137	
Allyl chloride	ug/L	20	19.5	97	68-132	
Benzene	ug/L	20	18.0	90	75-125	
Bromobenzene	ug/L	20	20.0	100	75-125	
Bromochloromethane	ug/L	20	18.6	93	75-125	
Bromodichloromethane	ug/L	20	19.7	99	69-128	
Bromoform	ug/L	20	18.4	92	75-125	
Bromomethane	ug/L	20	16.4	82	30-150	
Carbon tetrachloride	ug/L	20	19.0	95	74-125	
Chlorobenzene	ug/L	20	19.9	99	75-125	
Chloroethane	ug/L	20	17.2	86	60-150	
Chloroform	ug/L	20	17.1	85	75-126	
Chloromethane	ug/L	20	18.2	91	46-150	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	75-126	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	75-125	
Dibromochloromethane	ug/L	20	20.0	100	75-125	
Dibromomethane	ug/L	20	20.8	104	72-127	
Dichlorodifluoromethane	ug/L	20	18.3	92	58-135	
Dichlorofluoromethane	ug/L	20	19.7	98	68-149	
Diethyl ether (Ethyl ether)	ug/L	20	17.6	88	66-144	
Ethylbenzene	ug/L	20	19.1	96	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.2	101	73-125	
Isopropylbenzene (Cumene)	ug/L	20	19.7	98	69-140	
Methyl-tert-butyl ether	ug/L	20	18.5	93	75-126	
Methylene Chloride	ug/L	20	16.8	84	71-130	
n-Butylbenzene	ug/L	20	20.1	100	71-129	
n-Propylbenzene	ug/L	20	19.6	98	71-133	
Naphthalene	ug/L	20	18.0	90	59-137	
p-Isopropyltoluene	ug/L	20	19.8	99	74-127	
sec-Butylbenzene	ug/L	20	19.1	96	66-140	
Styrene	ug/L	20	20.4	102	75-125	
tert-Butylbenzene	ug/L	20	18.8	94	73-129	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

LABORATORY CONTROL SAMPLE: 2227417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.0	100	75-125	
Tetrahydrofuran	ug/L	200	170	85	71-129	
Toluene	ug/L	20	20.0	100	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	75-125	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	75-125	
Trichloroethene	ug/L	20	19.4	97	75-125	
Trichlorofluoromethane	ug/L	20	20.8	104	74-128	
Vinyl chloride	ug/L	20	19.3	97	71-131	
Xylene (Total)	ug/L	60	59.3	99	75-125	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			101	75-125	
Toluene-d8 (S)	%.			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2228875 2228876

Parameter	Units	10343723004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.7	20.3	103	102	75-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.2	19.8	101	99	71-144	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.6	18.4	93	92	75-131	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.2	18.4	96	92	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.0	21.4	110	107	75-150	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	18.4	92	92	64-150	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.1	19.2	100	96	68-150	5	30	
1,1-Dichloropropene	ug/L	ND	20	20	19.8	19.6	99	98	68-145	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.3	17.8	92	89	57-142	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.8	20.2	104	101	75-125	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.9	18.6	90	93	60-135	4	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.8	19.3	99	96	67-148	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.1	44.7	92	89	32-137	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.3	19.4	101	97	75-125	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.1	19.2	95	96	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.8	17.2	88	86	62-138	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.2	18.8	96	94	62-144	2	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.7	19.5	98	98	67-148	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.0	18.9	95	95	74-131	0	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.1	19.1	96	95	75-127	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	18.1	91	90	74-126	1	30	
2,2-Dichloropropane	ug/L	ND	20	20	19.5	19.3	97	96	56-146	1	30	
2-Butanone (MEK)	ug/L	ND	100	100	103	97.9	103	98	47-150	5	30	
2-Chlorotoluene	ug/L	ND	20	20	19.6	19.3	98	97	74-137	2	30	
4-Chlorotoluene	ug/L	ND	20	20	19.3	19.5	97	98	72-138	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	109	103	109	103	60-147	6	30	
Acetone	ug/L	ND	100	100	94.6	93.9	95	94	61-150	1	30	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2228875 2228876

Parameter	Units	10343723004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	20	20	19.1	18.7	95	94	53-150	2	30	
Benzene	ug/L	ND	20	20	17.9	17.7	89	88	52-147	1	30	
Bromobenzene	ug/L	ND	20	20	19.1	19.4	96	97	75-129	1	30	
Bromochloromethane	ug/L	ND	20	20	18.6	17.9	93	89	72-128	4	30	
Bromodichloromethane	ug/L	ND	20	20	19.7	19.6	98	98	65-137	1	30	
Bromoform	ug/L	ND	20	20	17.0	17.1	85	86	59-133	0	30	
Bromomethane	ug/L	ND	20	20	15.5	16.2	78	81	30-150	4	30	
Carbon tetrachloride	ug/L	ND	20	20	21.0	21.5	105	107	73-144	2	30	
Chlorobenzene	ug/L	ND	20	20	19.7	19.5	98	97	75-126	1	30	
Chloroethane	ug/L	ND	20	20	18.2	18.5	91	92	55-150	2	30	
Chloroform	ug/L	ND	20	20	17.3	17.6	87	88	66-143	2	30	
Chloromethane	ug/L	ND	20	20	18.0	18.6	90	93	42-150	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.8	17.8	94	89	65-143	5	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.6	95	93	75-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	19.5	19.1	98	96	75-125	2	30	
Dibromomethane	ug/L	ND	20	20	20.1	19.8	101	99	66-133	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.5	22.6	108	113	74-150	5	30	
Dichlorofluoromethane	ug/L	ND	20	20	19.8	20.2	99	101	68-150	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.8	18.2	89	91	57-148	2	30	
Ethylbenzene	ug/L	ND	20	20	18.9	18.8	94	94	67-149	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.1	20.4	95	102	65-143	7	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.4	20.2	102	101	64-150	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.5	17.7	92	89	71-130	4	30	
Methylene Chloride	ug/L	ND	20	20	16.6	16.4	83	82	67-137	1	30	
n-Butylbenzene	ug/L	ND	20	20	20.3	20.3	102	101	70-138	0	30	
n-Propylbenzene	ug/L	ND	20	20	20.1	20.0	100	100	70-148	0	30	
Naphthalene	ug/L	ND	20	20	17.2	17.0	86	85	39-150	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.9	20.0	99	100	74-138	1	30	
sec-Butylbenzene	ug/L	ND	20	20	20.0	20.1	100	100	64-150	0	30	
Styrene	ug/L	ND	20	20	19.1	18.3	96	91	75-132	5	30	
tert-Butylbenzene	ug/L	ND	20	20	19.7	19.8	99	99	75-138	0	30	
Tetrachloroethene	ug/L	ND	20	20	21.3	21.2	107	106	73-136	0	30	
Tetrahydrofuran	ug/L	ND	200	200	166	161	83	80	68-142	3	30	
Toluene	ug/L	ND	20	20	20.0	19.5	99	96	69-139	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.8	17.9	89	89	75-135	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.0	100	100	66-136	0	30	
Trichloroethene	ug/L	ND	20	20	19.6	19.3	98	97	74-135	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	23.2	23.6	116	118	75-150	2	30	
Vinyl chloride	ug/L	ND	20	20	19.4	19.9	97	100	69-150	3	30	
Xylene (Total)	ug/L	ND	60	60	59.1	57.7	99	96	70-147	2	30	
1,2-Dichloroethane-d4 (S)	%.						104	107	75-125			
4-Bromofluorobenzene (S)	%.						99	100	75-125			
Toluene-d8 (S)	%.						103	103	75-125			

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: WETA/26759
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 10343520001, 10343520002

METHOD BLANK: 2223250
Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.020	04/05/16 08:39	
Nitrite as N	mg/L	ND	0.020	04/05/16 08:39	
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	04/05/16 08:39	FS

LABORATORY CONTROL SAMPLE: 2223251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	
Nitrogen, NO2 plus NO3	mg/L	1	1.0	102	90-110	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223252 2223253

Parameter	Units	10343012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	ND	1	1	0.93	0.93	93	93	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	1.0	1	1	2.0	2.0	96	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223254 2223255

Parameter	Units	10343012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	ND	1	1	0.14	0.13	12	12	90-110	6	20	
Nitrogen, NO2 plus NO3	mg/L	0.55	1	1	0.78	0.78	24	23	90-110	0	20	M1

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

EPA-R5-2017-010506_0002557

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

QUALITY CONTROL DATA

Project: Tower
Pace Project No.: 10343520

QC Batch: WETA/26798 | Analysis Method: ASTM D516
QC Batch Method: ASTM D516 | Analysis Description: ASTM D516 Sulfate Water
Associated Lab Samples: 10343520001, 10343520002

METHOD BLANK: 2227251 | Matrix: Water
Associated Lab Samples: 10343520001, 10343520002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	0.96	04/08/16 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 2227252 2227253

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfate	mg/L	7.5	8.3	8.0	111	106	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2227254 2227255

Parameter	Units	10343718001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	109	20	20	120	123	55	67	80-120	2	30	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2227256 2227257

Parameter	Units	10343705006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	11.1	20	20	30.7	29.1	98	90	80-120	5	30	

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALIFIERS

Project: Tower
Pace Project No.: 10343520

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

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
FS	The sample was filtered in the laboratory prior to analysis.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tower
Pace Project No.: 10343520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10343520001	**16TSGW04**	EPA 3010	MPRP/62397	EPA 6010C	ICP/27330
10343520002	**16TSGW05**	EPA 3010	MPRP/62397	EPA 6010C	ICP/27330
10343520001	**16TSGW04**	EPA 7470A	MERP/16290	EPA 7470A	MERC/19104
10343520002	**16TSGW05**	EPA 7470A	MERP/16290	EPA 7470A	MERC/19104
10343520001	**16TSGW04**	EPA 8260B	MSV/35131		
10343520002	**16TSGW05**	EPA 8260B	MSV/35131		
10343520003	**16TSTB02**	EPA 8260B	MSV/35147		
10343520001	**16TSGW04**	EPA 353.2	WETA/26759		
10343520002	**16TSGW05**	EPA 353.2	WETA/26759		
10343520001	**16TSGW04**	ASTM D516	WETA/26798		
10343520002	**16TSGW05**	ASTM D516	WETA/26798		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

W034 3570

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:

Company:	Bristol Environmental Remediation Services, LLC
Address:	111 W. 16th Avenue
	Anchorage, AK 99501
Email:	mfaust@bristol-companies.com
Phone:	(907)743-9346 Fax:
Requested Due Date:	

Section B Required Project Information:

Report To:	Matt Faust
Copy To:	
Purchase Order #:	
Project Name:	Tower
Project #:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	shawn.davis@pacelabs.com,
Pace Profile #:	35445

Regulatory Agency:

State / Location: WI

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260 + MTBE	GRO by WIGRO	DRO by WIDRO	PAH 8270 by SIM	RCRA Metals + Hg	Moisture (dry weight)	Trip Blank - VOC/GRO (SL)	VOC by 8260 + MTBE	Anions 300.0 - Nitrate/Sulfate	Nitrate + Nitrite	RCRA Metals + Hg	Trip Blank - VOC (WT)	Residual Chlorine (Y/N)	
1	16TSGW04	WT	G	4/3/16	1010				5		X	X	X						X								X	X	X			001
2	16TSGW05	WT	G	4/3/16	1135				5		X	X	X						X								X	X	X			002
3	16TSTB02	WT	G	4/3/16					2				X																	X		003
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lyndsey Kleppin BERS	4/4/16	1000	Pace	4/4/16	1022	1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lyndsey Kleppin

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/4/16

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

EPA-R5-2017-010506_0002557

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Bristol Env

Project #: WO#: 10343520

10343520

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number:

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

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ B88A912167504 ☐ 151401164 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.0 **Cooler Temp Corrected (°C):** 1.1 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** 4-4-16/AS

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				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)? 4/1/16 AS	☑ 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.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☑ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample # 1-2 1/1 1/1
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☑ Yes	☐ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 020116-3824				

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

Person Contacted: Matt Date/Time: 4/4

Comments/Resolution: OK to run ASTM + 353.2

Project Manager Review: Vanessa Segovia **Date:** 4-4-16

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).