

April 26, 2018

Robert Smith
ATC Group Services
46555 Humboldt
Suite 100
Novi, MI 48377

RE: Project: Drinking Water Testing - Bow
Pace Project No.: 4610697

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Gary Wood
gary.wood@pacelabs.com
(616)940-4206
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services
Michael Hauswirth, ATC Group Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate
#17-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #56192 and
56193

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9028

Wisconsin Department of Natural Resources, Laboratory
#999472650

U.S. Department of Agriculture Permit to Receive Soil,
Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610697001	1-106-B	Drinking Water	04/05/18 16:55	04/11/18 17:58
4610697002	1-116-CF	Drinking Water	04/05/18 16:45	04/11/18 17:58
4610697003	2-C-B-2	Drinking Water	04/05/18 17:10	04/11/18 17:58
4610697004	1-114-CF-1	Drinking Water	04/05/18 16:32	04/11/18 17:58
4610697005	1-121-KS-1	Drinking Water	04/05/18 17:04	04/11/18 17:58
4610697006	1-111-CF-1	Drinking Water	04/05/18 16:42	04/11/18 17:58
4610697007	1-A-B-3	Drinking Water	04/05/18 16:38	04/11/18 17:58
4610697008	1-B-B-3	Drinking Water	04/05/18 16:53	04/11/18 17:58
4610697009	1-A-B-1	Drinking Water	04/05/18 16:31	04/11/18 17:58
4610697010	1-113-CF-1	Drinking Water	04/05/18 16:41	04/11/18 17:58
4610697011	1-A-B-4	Drinking Water	04/05/18 16:39	04/11/18 17:58
4610697012	1-121-KS-3	Drinking Water	04/05/18 17:04	04/11/18 17:58
4610697013	1-B-B-1	Drinking Water	04/05/18 16:58	04/11/18 17:58
4610697014	1-110-CF-1	Drinking Water	04/05/18 16:49	04/11/18 17:58
4610697015	2-C-B-1	Drinking Water	04/05/18 17:10	04/11/18 17:58
4610697016	1-105-CF-1	Drinking Water	04/05/18 17:00	04/11/18 17:58
4610697017	1-108-CF	Drinking Water	04/05/18 16:53	04/11/18 17:58
4610697018	1-120-CF-1	Drinking Water	04/05/18 16:40	04/11/18 17:58
4610697019	1-101-CF-1	Drinking Water	04/05/18 17:00	04/11/18 17:58
4610697020	1-121-KS-2	Drinking Water	04/05/18 17:05	04/11/18 17:58
4610697021	2-D-B-2	Drinking Water	04/05/18 17:15	04/11/18 17:58
4610697022	2-D-B-1	Drinking Water	04/05/18 17:13	04/11/18 17:58
4610697023	1-100-B	Drinking Water	04/05/18 17:02	04/11/18 17:58
4610697024	1-110-B	Drinking Water	04/05/18 16:48	04/11/18 17:58
4610697025	1-110-CF-2	Drinking Water	04/05/18 16:50	04/11/18 17:58
4610697026	1-117A-OF	Drinking Water	04/05/18 16:32	04/11/18 17:58
4610697027	2-C-B-3	Drinking Water	04/05/18 17:07	04/11/18 17:58
4610697028	2-C-B-4	Drinking Water	04/05/18 17:08	04/11/18 17:58

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SAMPLE ANALYTE COUNT

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610697001	1-106-B	EPA 200.8	DWJ	2
4610697002	1-116-CF	EPA 200.8	DWJ	2
4610697003	2-C-B-2	EPA 200.8	DWJ	2
4610697004	1-114-CF-1	EPA 200.8	DWJ	2
4610697005	1-121-KS-1	EPA 200.8	DWJ	2
4610697006	1-111-CF-1	EPA 200.8	DWJ	2
4610697007	1-A-B-3	EPA 200.8	DWJ	2
4610697008	1-B-B-3	EPA 200.8	DWJ	2
4610697009	1-A-B-1	EPA 200.8	DWJ	2
4610697010	1-113-CF-1	EPA 200.8	DWJ	2
4610697011	1-A-B-4	EPA 200.8	DWJ	2
4610697012	1-121-KS-3	EPA 200.8	DWJ	2
4610697013	1-B-B-1	EPA 200.8	DWJ	2
4610697014	1-110-CF-1	EPA 200.8	DWJ	2
4610697015	2-C-B-1	EPA 200.8	DWJ	2
4610697016	1-105-CF-1	EPA 200.8	DWJ	2
4610697017	1-108-CF	EPA 200.8	DWJ	2
4610697018	1-120-CF-1	EPA 200.8	DWJ	2
4610697019	1-101-CF-1	EPA 200.8	DWJ	2
4610697020	1-121-KS-2	EPA 200.8	DWJ	2
4610697021	2-D-B-2	EPA 200.8	DWJ	2
4610697022	2-D-B-1	EPA 200.8	DWJ	2
4610697023	1-100-B	EPA 200.8	DWJ	2
4610697024	1-110-B	EPA 200.8	DWJ	2
4610697025	1-110-CF-2	EPA 200.8	DWJ	2
4610697026	1-117A-OF	EPA 200.8	DWJ	2
4610697027	2-C-B-3	EPA 200.8	DWJ	2
4610697028	2-C-B-4	EPA 200.8	DSC	2

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-106-B		Lab ID: 4610697001		Collected: 04/05/18 16:55		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1530	ug/L	25.0	1300	25		04/25/18 14:35	7440-50-8	
Lead	9.8	ug/L	1.0	15	1		04/25/18 12:32	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-116-CF		Lab ID: 4610697002		Collected: 04/05/18 16:45		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	410	ug/L	5.0	1300	5		04/25/18 14:37	7440-50-8	
Lead	9.5	ug/L	1.0	15	1		04/25/18 12:33	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-2		Lab ID: 4610697003		Collected: 04/05/18 17:10		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	92.0	ug/L	5.0	1300	5		04/25/18 14:38	7440-50-8	
Lead	1.7	ug/L	1.0	15	1		04/25/18 12:35	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-114-CF-1		Lab ID: 4610697004		Collected: 04/05/18 16:32		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	934	ug/L	10.0	1300	10		04/25/18 14:44	7440-50-8	
Lead	98.7	ug/L	1.0	15	1		04/25/18 12:40	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-1		Lab ID: 4610697005		Collected: 04/05/18 17:04		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	959	ug/L	10.0	1300	10		04/25/18 14:48	7440-50-8	
Lead	14.7	ug/L	1.0	15	1		04/25/18 12:42	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-111-CF-1		Lab ID: 4610697006		Collected: 04/05/18 16:42		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1400	ug/L	25.0	1300	25		04/25/18 14:50	7440-50-8	
Lead	74.6	ug/L	1.0	15	1		04/25/18 12:43	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-A-B-3		Lab ID: 4610697007		Collected: 04/05/18 16:38		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	117	ug/L	5.0	1300	5		04/25/18 14:51	7440-50-8	
Lead	1.9	ug/L	1.0	15	1		04/25/18 12:48	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-B-B-3		Lab ID: 4610697008		Collected: 04/05/18 16:53		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	251	ug/L	5.0	1300	5		04/25/18 14:53	7440-50-8	
Lead	33.4	ug/L	1.0	15	1		04/25/18 12:52	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-A-B-1		Lab ID: 4610697009		Collected: 04/05/18 16:31		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	54.8	ug/L	1.0	1300	1		04/25/18 12:54	7440-50-8	
Lead	2.8	ug/L	1.0	15	1		04/25/18 12:54	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-113-CF-1		Lab ID: 4610697010		Collected: 04/05/18 16:41		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	524	ug/L	10.0	1300	10		04/25/18 14:54	7440-50-8	
Lead	5.4	ug/L	1.0	15	1		04/25/18 12:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-A-B-4		Lab ID: 4610697011		Collected: 04/05/18 16:39		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	94.9	ug/L	1.0	1300	1		04/25/18 12:57	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		04/25/18 12:57	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-3		Lab ID: 4610697012		Collected: 04/05/18 17:04		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	571	ug/L	10.0	1300	10		04/25/18 14:56	7440-50-8	
Lead	4.8	ug/L	1.0	15	1		04/25/18 12:58	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-B-B-1		Lab ID: 4610697013		Collected: 04/05/18 16:58		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	150	ug/L	5.0	1300	5		04/25/18 14:57	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		04/25/18 12:59	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-CF-1		Lab ID: 4610697014		Collected: 04/05/18 16:49		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1010	ug/L	25.0	1300	25		04/25/18 15:35	7440-50-8	
Lead	45.8	ug/L	1.0	15	1		04/25/18 13:01	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-1		Lab ID: 4610697015		Collected: 04/05/18 17:10		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	89.1	ug/L	1.0	1300	1		04/25/18 13:14	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		04/25/18 13:14	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-105-CF-1		Lab ID: 4610697016		Collected: 04/05/18 17:00		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	636	ug/L	10.0	1300	10		04/25/18 15:07	7440-50-8	
Lead	27.4	ug/L	1.0	15	1		04/25/18 13:16	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-108-CF		Lab ID: 4610697017		Collected: 04/05/18 16:53		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	794	ug/L	10.0	1300	10		04/25/18 15:09	7440-50-8	
Lead	103	ug/L	10.0	15	10		04/25/18 15:09	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-120-CF-1		Lab ID: 4610697018		Collected: 04/05/18 16:40		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	590	ug/L	10.0	1300	10		04/25/18 15:12	7440-50-8	
Lead	38.1	ug/L	1.0	15	1		04/25/18 13:18	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-101-CF-1		Lab ID: 4610697019		Collected: 04/05/18 17:00		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	247	ug/L	5.0	1300	5		04/25/18 15:14	7440-50-8	
Lead	10.3	ug/L	1.0	15	1		04/25/18 13:20	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-2		Lab ID: 4610697020		Collected: 04/05/18 17:05		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	535	ug/L	10.0	1300	10		04/25/18 15:15	7440-50-8	
Lead	9.6	ug/L	1.0	15	1		04/25/18 13:21	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-D-B-2		Lab ID: 4610697021		Collected: 04/05/18 17:15		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	310	ug/L	5.0	1300	5		04/25/18 15:16	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		04/25/18 13:23	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-D-B-1		Lab ID: 4610697022		Collected: 04/05/18 17:13		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	392	ug/L	5.0	1300	5		04/25/18 15:18	7440-50-8	
Lead	2.4	ug/L	1.0	15	1		04/25/18 13:27	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-100-B		Lab ID: 4610697023		Collected: 04/05/18 17:02		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	438	ug/L	10.0	1300	10		04/25/18 15:19	7440-50-8	
Lead	35.8	ug/L	1.0	15	1		04/25/18 13:29	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-B		Lab ID: 4610697024		Collected: 04/05/18 16:48		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	501	ug/L	10.0	1300	10		04/25/18 15:29	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/25/18 13:34	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-CF-2		Lab ID: 4610697025		Collected: 04/05/18 16:50		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	348	ug/L	5.0	1300	5		04/25/18 15:30	7440-50-8	
Lead	2.1	ug/L	1.0	15	1		04/25/18 13:36	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-117A-OF		Lab ID: 4610697026		Collected: 04/05/18 16:32		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	956	ug/L	10.0	1300	10		04/25/18 15:32	7440-50-8	
Lead	4.5	ug/L	1.0	15	1		04/25/18 13:37	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-3		Lab ID: 4610697027		Collected: 04/05/18 17:07		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	103	ug/L	5.0	1300	5		04/25/18 15:33	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		04/25/18 13:39	7439-92-1	

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ANALYTICAL RESULTS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-4		Lab ID: 4610697028		Collected: 04/05/18 17:08		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	151	ug/L	5.0	1300	5		04/16/18 13:02	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		04/16/18 09:31	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow
Pace Project No.: 4610697

QC Batch:	20423	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610697028		

METHOD BLANK: 81496 Matrix: Water
Associated Lab Samples: 4610697028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/16/18 09:12	
Lead	ug/L	<1.0	1.0	04/16/18 09:12	

LABORATORY CONTROL SAMPLE: 81497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.6	103	85-115	
Lead	ug/L	20	20.2	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 81498 81499

Parameter	Units	4610560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	0.0033 mg/L	20	20	22.3	23.7	95	102	70-130	6	20	
Lead	ug/L	<0.0010 mg/L	20	20	19.5	21.4	97	107	70-130	9	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow
Pace Project No.: 4610697

QC Batch: 21233 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4610697001, 4610697002, 4610697003, 4610697004, 4610697005, 4610697006, 4610697007

METHOD BLANK: 84616 Matrix: Water
Associated Lab Samples: 4610697001, 4610697002, 4610697003, 4610697004, 4610697005, 4610697006, 4610697007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/25/18 11:59	
Lead	ug/L	<1.0	1.0	04/25/18 11:59	

LABORATORY CONTROL SAMPLE: 84617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.5	103	85-115	
Lead	ug/L	20	21.0	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84618 84619

Parameter	Units	4610696019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	533	200	200	756	749	111	108	70-130	1	20	
Lead	ug/L	52.5	20	20	73.4	73.0	104	102	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84621 84622

Parameter	Units	4610697003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	92.0	100	100	204	198	112	106	70-130	3	20	
Lead	ug/L	1.7	20	20	22.6	22.2	105	103	70-130	2	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow
Pace Project No.: 4610697

QC Batch:	21234	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610697008, 4610697009, 4610697010, 4610697011, 4610697012, 4610697013, 4610697014, 4610697015, 4610697016, 4610697017, 4610697018, 4610697019, 4610697020, 4610697021, 4610697022, 4610697023, 4610697024, 4610697025, 4610697026, 4610697027		

METHOD BLANK:	84624	Matrix:	Water
Associated Lab Samples:	4610697008, 4610697009, 4610697010, 4610697011, 4610697012, 4610697013, 4610697014, 4610697015, 4610697016, 4610697017, 4610697018, 4610697019, 4610697020, 4610697021, 4610697022, 4610697023, 4610697024, 4610697025, 4610697026, 4610697027		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/25/18 12:49	
Lead	ug/L	<1.0	1.0	04/25/18 12:49	

LABORATORY CONTROL SAMPLE: 84625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	21.7	109	85-115	
Lead	ug/L	20	20.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			84626	84627								
Parameter	Units	4610697014	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike Conc.	Spike Conc.						Result	Result	
Copper	ug/L	1010	500	500	1540	1570	106	112	70-130	2	20	
Lead	ug/L	45.8	20	20	65.3	66.7	98	104	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
84629				84630								
			MS	MSD								
		4610697023	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	438	200	200	643	637	102	99	70-130	1	20	
Lead	ug/L	35.8	20	20	55.7	55.5	100	99	70-130	0	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Drinking Water Testing - Bow
Pace Project No.: 4610697

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610697001	1-106-B	EPA 200.8	21233		
4610697002	1-116-CF	EPA 200.8	21233		
4610697003	2-C-B-2	EPA 200.8	21233		
4610697004	1-114-CF-1	EPA 200.8	21233		
4610697005	1-121-KS-1	EPA 200.8	21233		
4610697006	1-111-CF-1	EPA 200.8	21233		
4610697007	1-A-B-3	EPA 200.8	21233		
4610697008	1-B-B-3	EPA 200.8	21234		
4610697009	1-A-B-1	EPA 200.8	21234		
4610697010	1-113-CF-1	EPA 200.8	21234		
4610697011	1-A-B-4	EPA 200.8	21234		
4610697012	1-121-KS-3	EPA 200.8	21234		
4610697013	1-B-B-1	EPA 200.8	21234		
4610697014	1-110-CF-1	EPA 200.8	21234		
4610697015	2-C-B-1	EPA 200.8	21234		
4610697016	1-105-CF-1	EPA 200.8	21234		
4610697017	1-108-CF	EPA 200.8	21234		
4610697018	1-120-CF-1	EPA 200.8	21234		
4610697019	1-101-CF-1	EPA 200.8	21234		
4610697020	1-121-KS-2	EPA 200.8	21234		
4610697021	2-D-B-2	EPA 200.8	21234		
4610697022	2-D-B-1	EPA 200.8	21234		
4610697023	1-100-B	EPA 200.8	21234		
4610697024	1-110-B	EPA 200.8	21234		
4610697025	1-110-CF-2	EPA 200.8	21234		
4610697026	1-117A-OF	EPA 200.8	21234		
4610697027	2-C-B-3	EPA 200.8	21234		
4610697028	2-C-B-4	EPA 200.8	20423		

REPORT OF LABORATORY ANALYSIS

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

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

Page: 2 of 3

REGULATORY AGENCY	
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Site Location	MI

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	<i>David</i>	<i>4/6/18</i>	<i>1305</i>	<i>Paul</i>	<i>4/11/18</i>	<i>1305</i>							
	<i>Paul</i>	<i>4/11/18</i>	<i>1750</i>	<i>Quante</i>	<i>6/4/18</i>	<i>1750</i>							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Craig Demishuk*

SIGNATURE of SAMPLER: 

DATE Signed (MM/DD/YY): *4/6/18*

Page 39 of 40

WD# : 4610697

CHAIN-OF-CUSTODY / Analytical Request Document

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

#19331

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ATC Group Services	Report To:	Rob Smith	Attention:	
Address:	46555 Humboldt Dr. Ste 100, Novi Mi. 48377	Copy To:		Company Name:	
Email To:	Robert.Smith@ATCGS.com	Purchase Order No.:		Address:	
Phone:	1 248 669 5140	Project Name:	Bow Elementary-Middle School	Pace Quote Reference:	
Requested Due Date/TAT:	10 Days	Project Number:	188bs18112	Pace Project Manager:	

Page: 3 of 3

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input checked="" type="checkbox"/> DRINKING WATER
<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
Site Location	MI
STATE:	

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives					Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB		DATE	TIME	DATE	TIME	DATE				
1	1-110-CF-2	DW	G	4/5/18	4:50pm	1						X			+025
2	1-117A-OF	DW	G	4/5/18	4:32pm	1						X			-026
3	2-C-B-3	DW	G	4/5/18	5:07pm	1						X			-027
4	2-C-B-4	DW	G	4/5/18	5:08pm	1						X			-028
5															-028 New 03/12/18
6															
7															
8															
9															
10															
11															
12															

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
		4/11/18 1758		4/11/18 1758		Temp in °C	
		4/11/18 1758		4/11/18 1758		Received on	
						Sealed Cooler (Y/N)	
						Custody (Y/N)	
						Samples Intact (Y/N)	

SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client ATC - Bow	Work Order # 4610697
Receipt Record Page/Line # (47-1)	Project Chemist Sample # 001-028

Recorded by (initials/date) aw 04/12/18 am	<input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received 1	<input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (#)	<input type="checkbox"/> See Additional Cooler Information Form
--	--	--------------------------	--	---

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
	0115							
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank: 0	0	0	Temp Blank:			Temp Blank:		
Sample 1: 21.5	0	21.5	Sample 1:			Sample 1:		
Sample 2: 21.6	0	21.6	Sample 2:			Sample 2:		
Sample 3: 21.5	0	21.5	Sample 3:			Sample 3:		
3 Sample Average °C: 21.5			3 Sample Average °C:			3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/> Chain of Custody record(s)? If No, Initiated By _____
<input checked="" type="checkbox"/>	Received for Lab Signed/Date/Time?
<input type="checkbox"/>	<input checked="" type="checkbox"/> Shipping document?
<input type="checkbox"/>	<input type="checkbox"/> Other _____

COC Information

<input checked="" type="checkbox"/> Pace COC	<input type="checkbox"/> Other _____
--	--------------------------------------

COC ID Numbers:

19329, 19330, 19331

Check COC for Accuracy

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/> Analysis Requested?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sample ID matches COC?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sample Date and Time matches COC?
<input checked="" type="checkbox"/>	Container type completed on COC?
<input checked="" type="checkbox"/>	<input type="checkbox"/> All container types indicated are received?

Sample Condition Summary

N/A	Yes	No
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Broken containers/lids?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Missing or incomplete labels?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Illegible information on labels?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Low volume received?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Inappropriate or non-Pace containers received?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> VOC vials / TOX containers have headspace?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> If either is ≥6° C, was thermal preservation required?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If "Yes", Project Chemist Approval Initials: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If "Yes" Completed Non Con Cooler - Cont Inventory Form?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Completed Sample Preservation Verification Form?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Samples chemically preserved correctly?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If "No", added orange tag?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Received pre-preserved VOC soils?
		<input type="checkbox"/> MeOH <input type="checkbox"/> Na ₂ SO ₄

Check for Short Hold-Time Prep/Analyses

<input type="checkbox"/> Bacteriological	AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) <input checked="" type="checkbox"/> NONE RECEIVED <input type="checkbox"/> RECEIVED, COCs TO LAB(S)
<input type="checkbox"/> Air Bags	
<input type="checkbox"/> EnCores / Methanol Pre-Preserved	
<input type="checkbox"/> Formaldehyde/Aldehyde	
<input type="checkbox"/> Green-tagged containers	
<input type="checkbox"/> Yellow/White-tagged 1 L ambers (SV Prep-Lab)	

Notes

<input type="checkbox"/> Trip Blank received	<input type="checkbox"/> Trip Blank not listed on COC
Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)
aw 04/12/18	aw 04/12/18 am
≤1 Hour Goal Met?	
Yes / No	

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client ATC - Bow	Work Order # 4610697
Receipt Log # (47-1)	Completed By (initials/date) aw 04/12/18 am
Project Manager	

COC ID # 19329 (1/3)												Adjusted by: _____ Date: _____			
Container Type	5 / 23		4		13		(6)		15						
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2						
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted			
COC Line #1							✓								
COC Line #2							✓								
COC Line #3							✓								
COC Line #4							✓								
COC Line #5							✓								
COC Line #6							✓								
COC Line #7							✓								
COC Line #8							✓								
COC Line #9							✓								
COC Line #10							✓								
COC Line #11							✓								
COC Line #12							✓								

pH Strip Reagent or Lot #
<input checked="" type="checkbox"/> HC727135
<input type="checkbox"/> Other

Place a check mark in the Received box if pH is acceptable. If pH is not acceptable, document the Received and Adjusted pH values in the appropriate columns (all adjustments must be reviewed by the project manager). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach an orange preservation tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments:

COC ID # 19330 (2/3)												Adjusted by: _____ Date: _____			
Container Type	5 / 23		4		13		(6)		15						
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2						
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted			
COC Line #1							✓								
COC Line #2							✓								
COC Line #3							✓								
COC Line #4							✓								
COC Line #5							✓								
COC Line #6							✓								
COC Line #7							✓								
COC Line #8							✓								
COC Line #9							✓								
COC Line #10							✓								
COC Line #11							✓								
COC Line #12							✓								

Container Size (mL)	Default Preservative Volume (mL)
Container Types 5 / 23	NaOH
250	1.3
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5
Container Types 6 / 15	HNO ₃
125	0.7
250	1.25
500	2.5
1000	5.0

Comments:

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: ATC - Bow	Work Order #: 4610697
Receipt Log #: (47-1)	Completed By (initials/date): AW 04/12/18 am
Project Manager: _____	

COC ID #: 19331 (3/3)										Adjusted by: _____			
										Date: _____			
Container Type	5 / 23		4		13		6		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1							✓						
COC Line #2							✓						
COC Line #3							✓						
COC Line #4							✓						
COC Line #5													
COC Line #6													
COC Line #7													
COC Line #8													
COC Line #9													
COC Line #10													
COC Line #11													
COC Line #12													

pH Strip Reagent or Lot #
✓ HC727135
Other

Place a check mark in the Received box if pH is acceptable. If pH is not acceptable, document the Received and Adjusted pH values in the appropriate columns (all adjustments must be reviewed by the project manager). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach an orange preservation tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments:

COC ID #										Adjusted by: _____			
										Date: _____			
Container Type	5 / 23		4		13		6		15				
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2				
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	
COC Line #1													
COC Line #2													
COC Line #3													
COC Line #4													
COC Line #5													
COC Line #6													
COC Line #7													
COC Line #8													
COC Line #9													
COC Line #10													
COC Line #11													
COC Line #12													

Comments:

Container Size (mL)	Default Preservative Volume (mL)
Container Types 5 / 23	NaOH
250	1.3
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5
Container Types 6 / 15	HNO ₃
125	0.7
250	1.25
500	2.5
1000	5.0



SAMPLE RECEIVING NON-CONFORMANCE REPORT

Client	ATC-Bow		Work Order #	4610697
Receipt Log #	(47-1)	Completed By (initials/date)	aw 04/12/18 am	
<p>List non-conformance issues associated with this work order in the chart below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed.</p>				

List non-conformance issues associated with this work order in the chart below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed.

[illegible]