

April 26, 2018

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

RE: Project: Burton 188BS18121
Pace Project No.: 4610692

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: Burton 188BS18121

Pace Project No.: 4610692

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: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610692001	1-K-KF-3-P	Drinking Water	04/05/18 09:25	04/11/18 17:58
4610692002	1-K-KF-3-F	Drinking Water	04/05/18 09:27	04/11/18 17:58
4610692003	1-K-KF-5-P	Drinking Water	04/05/18 09:26	04/11/18 17:58
4610692004	1-K-KF-5-F	Drinking Water	04/05/18 09:28	04/11/18 17:58
4610692005	1-K-KF-4-P	Drinking Water	04/05/18 09:26	04/11/18 17:58
4610692006	1-K-KF-4-F	Drinking Water	04/05/18 09:28	04/11/18 17:58
4610692007	1-K-KF-2-P	Drinking Water	04/05/18 09:27	04/11/18 17:58
4610692008	1-K-KF-2-F	Drinking Water	04/05/18 09:29	04/11/18 17:58
4610692009	1-K-KF-6-P	Drinking Water	04/05/18 09:29	04/11/18 17:58
4610692010	1-K-KF-6-F	Drinking Water	04/05/18 09:31	04/11/18 17:58
4610692011	1-K-KF-1-P	Drinking Water	04/05/18 09:34	04/11/18 17:58
4610692012	1-K-KF-1-F	Drinking Water	04/05/18 09:36	04/11/18 17:58
4610692013	1-A-WC-1-P	Drinking Water	04/05/18 09:38	04/11/18 17:58
4610692014	1-A-WC-1-F	Drinking Water	04/05/18 09:40	04/11/18 17:58
4610692015	1-A-WC-2-P	Drinking Water	04/05/18 09:38	04/11/18 17:58
4610692016	1-A-WC-2-F	Drinking Water	04/05/18 09:40	04/11/18 17:58
4610692017	1-B-WC-1-P	Drinking Water	04/05/18 09:43	04/11/18 17:58
4610692018	1-B-WC-1-F	Drinking Water	04/05/18 09:45	04/11/18 17:58
4610692019	1-G-WC-1-P	Drinking Water	04/05/18 09:49	04/11/18 17:58
4610692020	1-G-WC-1-F	Drinking Water	04/05/18 09:51	04/11/18 17:58
4610692021	1-BL-B-1-P	Drinking Water	04/05/18 09:54	04/11/18 17:58
4610692022	1-BL-B-1-F	Drinking Water	04/05/18 09:56	04/11/18 17:58
4610692023	1-B-WC-2-P	Drinking Water	04/05/18 10:06	04/11/18 17:58
4610692024	1-B-WC-2-F	Drinking Water	04/05/18 10:08	04/11/18 17:58
4610692025	1-B-WC-3-P	Drinking Water	04/05/18 10:06	04/11/18 17:58
4610692026	1-B-WC-3-F	Drinking Water	04/05/18 10:08	04/11/18 17:58
4610692027	1-GL-B-1-P	Drinking Water	04/05/18 10:00	04/11/18 17:58
4610692028	1-GL-B-1-F	Drinking Water	04/05/18 10:02	04/11/18 17:58
4610692029	1-C-WC-1-P	Drinking Water	04/05/18 10:13	04/11/18 17:58
4610692030	1-C-WC-1-F	Drinking Water	04/05/18 10:15	04/11/18 17:58
4610692031	1-GO-KF-1-P	Drinking Water	04/05/18 10:20	04/11/18 17:58
4610692032	1-GO-KF-1-F	Drinking Water	04/05/18 10:22	04/11/18 17:58
4610692033	1-AP-KF-1-P	Drinking Water	04/05/18 10:24	04/11/18 17:58
4610692034	1-AP-KF-1-F	Drinking Water	04/05/18 10:26	04/11/18 17:58
4610692035	1-SP-CF-1-P	Drinking Water	04/05/18 10:30	04/11/18 17:58
4610692036	1-SP-CF-1-F	Drinking Water	04/05/18 10:32	04/11/18 17:58
4610692037	1-SP-CF-2-P	Drinking Water	04/05/18 10:33	04/11/18 17:58

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610692038	1-SP-CF-2-F	Drinking Water	04/05/18 10:36	04/11/18 17:58
4610692039	1-D-WC-1-P	Drinking Water	04/05/18 10:38	04/11/18 17:58
4610692040	1-D-WC-1-F	Drinking Water	04/05/18 10:40	04/11/18 17:58
4610692041	1-121-CF-1-P	Drinking Water	04/05/18 10:44	04/11/18 17:58
4610692042	1-121-CF-1-F	Drinking Water	04/05/18 10:46	04/11/18 17:58
4610692043	1-115-CF-1-P	Drinking Water	04/05/18 10:51	04/11/18 17:58
4610692044	1-115-CF-1-F	Drinking Water	04/05/18 10:53	04/11/18 17:58
4610692045	1-115-CF-2-P	Drinking Water	04/05/18 10:52	04/11/18 17:58
4610692046	1-115-CF-2-F	Drinking Water	04/05/18 10:55	04/11/18 17:58
4610692047	2-A-WC-1-P	Drinking Water	04/05/18 11:01	04/11/18 17:58
4610692048	2-A-WC-1-F	Drinking Water	04/05/18 11:03	04/11/18 17:58
4610692049	2-A-WC-2-P	Drinking Water	04/05/18 11:01	04/11/18 17:58
4610692050	2-A-WC-2-F	Drinking Water	04/05/18 11:03	04/11/18 17:58
4610692051	1-P-B-1-P	Drinking Water	04/05/18 11:57	04/11/18 17:58
4610692052	1-P-B-1-F	Drinking Water	04/05/18 11:59	04/11/18 17:58
4610692053	1-P-B-2-P	Drinking Water	04/05/18 12:00	04/11/18 17:58
4610692054	1-P-B-2-F	Drinking Water	04/05/18 12:02	04/11/18 17:58

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SAMPLE ANALYTE COUNT

Project: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610692001	1-K-KF-3-P	EPA 200.8	DWJ	2
4610692002	1-K-KF-3-F	EPA 200.8	DWJ	2
4610692003	1-K-KF-5-P	EPA 200.8	DWJ	2
4610692004	1-K-KF-5-F	EPA 200.8	DWJ	2
4610692005	1-K-KF-4-P	EPA 200.8	DWJ	2
4610692006	1-K-KF-4-F	EPA 200.8	DWJ	2
4610692007	1-K-KF-2-P	EPA 200.8	DWJ	2
4610692008	1-K-KF-2-F	EPA 200.8	DWJ	2
4610692009	1-K-KF-6-P	EPA 200.8	DWJ	2
4610692010	1-K-KF-6-F	EPA 200.8	DWJ	2
4610692011	1-K-KF-1-P	EPA 200.8	DWJ	2
4610692012	1-K-KF-1-F	EPA 200.8	DWJ	2
4610692013	1-A-WC-1-P	EPA 200.8	DWJ	2
4610692014	1-A-WC-1-F	EPA 200.8	DWJ	2
4610692015	1-A-WC-2-P	EPA 200.8	DWJ	2
4610692016	1-A-WC-2-F	EPA 200.8	DWJ	2
4610692017	1-B-WC-1-P	EPA 200.8	DWJ	2
4610692018	1-B-WC-1-F	EPA 200.8	DWJ	2
4610692019	1-G-WC-1-P	EPA 200.8	DWJ	2
4610692020	1-G-WC-1-F	EPA 200.8	DWJ	2
4610692021	1-BL-B-1-P	EPA 200.8	DWJ	2
4610692022	1-BL-B-1-F	EPA 200.8	DWJ	2
4610692023	1-B-WC-2-P	EPA 200.8	DWJ	2
4610692024	1-B-WC-2-F	EPA 200.8	DWJ	2
4610692025	1-B-WC-3-P	EPA 200.8	DWJ	2
4610692026	1-B-WC-3-F	EPA 200.8	DWJ	2
4610692027	1-GL-B-1-P	EPA 200.8	DWJ	2
4610692028	1-GL-B-1-F	EPA 200.8	DWJ	2
4610692029	1-C-WC-1-P	EPA 200.8	DWJ	2
4610692030	1-C-WC-1-F	EPA 200.8	DWJ	2
4610692031	1-GO-KF-1-P	EPA 200.8	DWJ	2
4610692032	1-GO-KF-1-F	EPA 200.8	DWJ	2
4610692033	1-AP-KF-1-P	EPA 200.8	DWJ	2
4610692034	1-AP-KF-1-F	EPA 200.8	DWJ	2
4610692035	1-SP-CF-1-P	EPA 200.8	DWJ	2
4610692036	1-SP-CF-1-F	EPA 200.8	DWJ	2
4610692037	1-SP-CF-2-P	EPA 200.8	DWJ	2

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SAMPLE ANALYTE COUNT

Project: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610692038	1-SP-CF-2-F	EPA 200.8	DWJ	2
4610692039	1-D-WC-1-P	EPA 200.8	DWJ	2
4610692040	1-D-WC-1-F	EPA 200.8	DWJ	2
4610692041	1-121-CF-1-P	EPA 200.8	DWJ	2
4610692042	1-121-CF-1-F	EPA 200.8	DWJ	2
4610692043	1-115-CF-1-P	EPA 200.8	DWJ	2
4610692044	1-115-CF-1-F	EPA 200.8	DWJ	2
4610692045	1-115-CF-2-P	EPA 200.8	DWJ	2
4610692046	1-115-CF-2-F	EPA 200.8	DWJ	2
4610692047	2-A-WC-1-P	EPA 200.8	DWJ	2
4610692048	2-A-WC-1-F	EPA 200.8	DWJ	2
4610692049	2-A-WC-2-P	EPA 200.8	DWJ	2
4610692050	2-A-WC-2-F	EPA 200.8	DWJ	2
4610692051	1-P-B-1-P	EPA 200.8	DWJ	2
4610692052	1-P-B-1-F	EPA 200.8	DWJ	2
4610692053	1-P-B-2-P	EPA 200.8	DWJ	2
4610692054	1-P-B-2-F	EPA 200.8	DWJ	2

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-3-P		Lab ID: 4610692001		Collected: 04/05/18 09:25		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	1630	ug/L	25.0	1300	25		04/19/18 16:14	7440-50-8	
Lead	23.4	ug/L	1.0	15	1		04/19/18 14:12	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-3-F		Lab ID: 4610692002	Collected: 04/05/18 09:27	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	22.8	ug/L	1.0	1300	1		04/19/18 14:13	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:13	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-5-P		Lab ID: 4610692003		Collected: 04/05/18 09:26		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	326	ug/L	5.0	1300	5		04/19/18 16:15	7440-50-8	
Lead	1.3	ug/L	1.0	15	1		04/19/18 14:14	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-5-F		Lab ID: 4610692004		Collected: 04/05/18 09:28		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	4.2	ug/L	1.0	1300	1		04/19/18 14:16	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:16	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-4-P		Lab ID: 4610692005		Collected: 04/05/18 09:26		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	569	ug/L	10.0	1300	10		04/19/18 16:19	7440-50-8	
Lead	1.9	ug/L	1.0	15	1		04/19/18 14:24	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-4-F		Lab ID: 4610692006		Collected: 04/05/18 09:28		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	6.2	ug/L	1.0	1300	1		04/19/18 14:25	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:25	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-2-P		Lab ID: 4610692007		Collected: 04/05/18 09:27		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	630	ug/L	10.0	1300	10		04/19/18 16:21	7440-50-8	
Lead	4.1	ug/L	1.0	15	1		04/19/18 14:26	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-2-F		Lab ID: 4610692008		Collected: 04/05/18 09:29		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	7.4	ug/L	1.0	1300	1		04/19/18 14:28	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:28	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-6-P		Lab ID: 4610692009		Collected: 04/05/18 09:29		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	1180	ug/L	25.0	1300	25		04/19/18 16:22	7440-50-8	
Lead	146	ug/L	25.0	15	25		04/19/18 16:22	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-6-F		Lab ID: 4610692010		Collected: 04/05/18 09:31		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	89.4	ug/L	1.0	1300	1		04/19/18 14:30	7440-50-8	
Lead	2.0	ug/L	1.0	15	1		04/19/18 14:30	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-1-P		Lab ID: 4610692011		Collected: 04/05/18 09:34		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	496	ug/L	10.0	1300	10		04/19/18 16:37	7440-50-8	
Lead	6.3	ug/L	1.0	15	1		04/19/18 14:32	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-K-KF-1-F		Lab ID: 4610692012		Collected: 04/05/18 09:36		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	9.4	ug/L	1.0	1300	1		04/19/18 14:33	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:33	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-A-WC-1-P		Lab ID: 4610692013		Collected: 04/05/18 09:38		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	47.3	ug/L	1.0	1300	1		04/19/18 16:39	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 16:39	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-A-WC-1-F		Lab ID: 4610692014		Collected: 04/05/18 09:40		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	85.0	ug/L	1.0	1300	1		04/19/18 14:38	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:38	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-A-WC-2-P		Lab ID: 4610692015		Collected: 04/05/18 09:38		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	75.9	ug/L	1.0	1300	1		04/19/18 14:40	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:40	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-A-WC-2-F		Lab ID: 4610692016		Collected: 04/05/18 09:40		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	87.4	ug/L	1.0	1300	1		04/19/18 14:41	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:41	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-1-P		Lab ID: 4610692017		Collected: 04/05/18 09:43		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	50.2	ug/L	1.0	1300	1		04/19/18 14:42	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:42	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-1-F		Lab ID: 4610692018		Collected: 04/05/18 09:45		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	42.3	ug/L	1.0	1300	1		04/19/18 14:44	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-G-WC-1-P		Lab ID: 4610692019		Collected: 04/05/18 09:49		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	30.2	ug/L	1.0	1300	1		04/19/18 14:55	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 14:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-G-WC-1-F		Lab ID: 4610692020		Collected: 04/05/18 09:51		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	4.2	ug/L	1.0	1300	1		04/19/18 15:00	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:00	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-BL-B-1-P		Lab ID: 4610692021		Collected: 04/05/18 09:54		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	467	ug/L	5.0	1300	5		04/19/18 16:25	7440-50-8	
Lead	7.3	ug/L	1.0	15	1		04/19/18 15:02	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-BL-B-1-F		Lab ID: 4610692022		Collected: 04/05/18 09:56		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	25.9	ug/L	1.0	1300	1		04/19/18 15:03	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:03	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-2-P		Lab ID: 4610692023	Collected: 04/05/18 10:06	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	258	ug/L	5.0	1300	5		04/19/18 16:26	7440-50-8	
Lead	1.8	ug/L	1.0	15	1		04/19/18 15:04	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-2-F		Lab ID: 4610692024		Collected: 04/05/18 10:08		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	18.3	ug/L	1.0	1300	1		04/19/18 15:06	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		04/19/18 15:06	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-3-P		Lab ID: 4610692025		Collected: 04/05/18 10:06		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	58.9	ug/L	1.0	1300	1		04/19/18 15:07	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		04/19/18 15:07	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-B-WC-3-F		Lab ID: 4610692026		Collected: 04/05/18 10:08		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	18.7	ug/L	1.0	1300	1		04/19/18 15:11	7440-50-8	
Lead	1.5	ug/L	1.0	15	1		04/19/18 15:11	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-GL-B-1-P		Lab ID: 4610692027		Collected: 04/05/18 10:00		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	307	ug/L	5.0	1300	5		04/19/18 16:27	7440-50-8	
Lead	19.1	ug/L	1.0	15	1		04/19/18 15:13	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-GL-B-1-F		Lab ID: 4610692028		Collected: 04/05/18 10:02		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	17.9	ug/L	1.0	1300	1		04/19/18 15:14	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:14	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-C-WC-1-P		Lab ID: 4610692029		Collected: 04/05/18 10:13		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	723	ug/L	10.0	1300	10		04/19/18 16:29	7440-50-8	
Lead	1.3	ug/L	1.0	15	1		04/19/18 15:15	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-C-WC-1-F		Lab ID: 4610692030		Collected: 04/05/18 10:15		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	72.4	ug/L	1.0	1300	1		04/19/18 15:17	7440-50-8	
Lead	4.2	ug/L	1.0	15	1		04/19/18 15:17	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-GO-KF-1-P		Lab ID: 4610692031		Collected: 04/05/18 10:20		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	226	ug/L	5.0	1300	5		04/19/18 16:30	7440-50-8	
Lead	5.5	ug/L	1.0	15	1		04/19/18 15:18	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-GO-KF-1-F		Lab ID: 4610692032		Collected: 04/05/18 10:22		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	14.1	ug/L	1.0	1300	1		04/19/18 15:19	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:19	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-AP-KF-1-P		Lab ID: 4610692033		Collected: 04/05/18 10:24		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	267	ug/L	5.0	1300	5		04/19/18 16:31	7440-50-8	
Lead	12.3	ug/L	1.0	15	1		04/19/18 15:20	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-AP-KF-1-F		Lab ID: 4610692034		Collected: 04/05/18 10:26		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	20.4	ug/L	1.0	1300	1		04/19/18 15:22	7440-50-8	
Lead	1.1	ug/L	1.0	15	1		04/19/18 15:22	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-SP-CF-1-P		Lab ID: 4610692035		Collected: 04/05/18 10:30		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		04/19/18 16:36	7440-50-8	
Lead	11.9	ug/L	1.0	15	1		04/19/18 15:30	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-SP-CF-1-F		Lab ID: 4610692036		Collected: 04/05/18 10:32		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	29.9	ug/L	1.0	1300	1		04/19/18 15:31	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:31	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-SP-CF-2-P		Lab ID: 4610692037		Collected: 04/05/18 10:33		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	154	ug/L	5.0	1300	5		04/23/18 10:34	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:33	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-SP-CF-2-F		Lab ID: 4610692038		Collected: 04/05/18 10:36		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	24.4	ug/L	1.0	1300	1		04/19/18 15:34	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/19/18 15:34	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-D-WC-1-P		Lab ID: 4610692039		Collected: 04/05/18 10:38		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	1120	ug/L	25.0	1300	25		04/24/18 11:30	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/23/18 11:23	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-D-WC-1-F		Lab ID: 4610692040	Collected: 04/05/18 10:40	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	64.3	ug/L	1.0	1300	1		04/23/18 11:28	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/23/18 11:28	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-121-CF-1-P		Lab ID: 4610692041		Collected: 04/05/18 10:44		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	212	ug/L	5.0	1300	5		04/24/18 11:38	7440-50-8	
Lead	3.1	ug/L	1.0	15	1		04/23/18 11:30	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-121-CF-1-F		Lab ID: 4610692042		Collected: 04/05/18 10:46		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	28.2	ug/L	1.0	1300	1		04/23/18 11:31	7440-50-8	
Lead	1.5	ug/L	1.0	15	1		04/23/18 11:31	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-115-CF-1-P		Lab ID: 4610692043		Collected: 04/05/18 10:51		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	2710	ug/L	50.0	1300	50		04/24/18 11:40	7440-50-8	
Lead	320	ug/L	5.0	15	5		04/24/18 11:41	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-115-CF-1-F		Lab ID: 4610692044		Collected: 04/05/18 10:53		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	5040	ug/L	100	1300	100		04/24/18 13:47	7440-50-8	
Lead	366	ug/L	5.0	15	5		04/24/18 11:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-115-CF-2-P		Lab ID: 4610692045		Collected: 04/05/18 10:52		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	536	ug/L	10.0	1300	10		04/24/18 11:45	7440-50-8	
Lead	8.9	ug/L	1.0	15	1		04/23/18 11:35	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-115-CF-2-F		Lab ID: 4610692046		Collected: 04/05/18 10:55		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	144	ug/L	5.0	1300	5		04/24/18 11:46	7440-50-8	
Lead	2.5	ug/L	1.0	15	1		04/23/18 11:39	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 2-A-WC-1-P		Lab ID: 4610692047		Collected: 04/05/18 11:01		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	623	ug/L	10.0	1300	10		04/24/18 11:48	7440-50-8	
Lead	5.2	ug/L	1.0	15	1		04/23/18 11:41	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 2-A-WC-1-F		Lab ID: 4610692048	Collected: 04/05/18 11:03	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	19.7	ug/L	1.0	1300	1		04/23/18 11:42	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/23/18 11:42	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 2-A-WC-2-P		Lab ID: 4610692049		Collected: 04/05/18 11:01		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	672	ug/L	10.0	1300	10		04/24/18 11:49	7440-50-8	
Lead	5.6	ug/L	1.0	15	1		04/23/18 11:43	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 2-A-WC-2-F		Lab ID: 4610692050		Collected: 04/05/18 11:03		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	20.7	ug/L	1.0	1300	1		04/23/18 11:44	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/23/18 11:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-P-B-1-P		Lab ID: 4610692051		Collected: 04/05/18 11:57		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	162	ug/L	5.0	1300	5		04/24/18 11:50	7440-50-8	
Lead	5.1	ug/L	1.0	15	1		04/23/18 11:46	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-P-B-1-F		Lab ID: 4610692052		Collected: 04/05/18 11:59		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	52.1	ug/L	1.0	1300	1		04/23/18 11:47	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		04/23/18 11:47	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-P-B-2-P		Lab ID: 4610692053		Collected: 04/05/18 12:00		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	363	ug/L	5.0	1300	5		04/24/18 11:57	7440-50-8	
Lead	4.3	ug/L	1.0	15	1		04/23/18 11:48	7439-92-1	

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ANALYTICAL RESULTS

Project: Burton 188BS18121

Pace Project No.: 4610692

Sample: 1-P-B-2-F		Lab ID: 4610692054		Collected: 04/05/18 12:02		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	75.2	ug/L	1.0	1300	1		04/23/18 13:11	7440-50-8	
Lead	1.0	ug/L	1.0	15	1		04/23/18 13:11	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Burton 188BS18121
Pace Project No.: 4610692

QC Batch:	20781	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610692001, 4610692002, 4610692003, 4610692004, 4610692005, 4610692006, 4610692007, 4610692008, 4610692009, 4610692010, 4610692011, 4610692012, 4610692013, 4610692014, 4610692015, 4610692016, 4610692017, 4610692018		

METHOD BLANK: 82917 Matrix: Water
Associated Lab Samples: 4610692001, 4610692002, 4610692003, 4610692004, 4610692005, 4610692006, 4610692007, 4610692008, 4610692009, 4610692010, 4610692011, 4610692012, 4610692013, 4610692014, 4610692015, 4610692016, 4610692017, 4610692018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/19/18 14:06	
Lead	ug/L	<1.0	1.0	04/19/18 14:06	

LABORATORY CONTROL SAMPLE: 82918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.1	101	85-115	
Lead	ug/L	20	19.6	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82920 82921

Parameter	Units	4610692004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	4.2	20	20	23.0	23.9	94	99	70-130	4	20	
Lead	ug/L	<1.0	20	20	19.7	20.7	99	103	70-130	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82922 82923

Parameter	Units	4610692018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	42.3	20	20	62.3	61.3	100	95	70-130	2	20	
Lead	ug/L	<1.0	20	20	20.7	20.1	104	101	70-130	3	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: Burton 188BS18121
Pace Project No.: 4610692

QC Batch:	20782	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610692019, 4610692020, 4610692021, 4610692022, 4610692023, 4610692024, 4610692025, 4610692026, 4610692027, 4610692028, 4610692029, 4610692030, 4610692031, 4610692032, 4610692033, 4610692034, 4610692035, 4610692036, 4610692037, 4610692038		

METHOD BLANK: 82926 Matrix: Water
Associated Lab Samples: 4610692019, 4610692020, 4610692021, 4610692022, 4610692023, 4610692024, 4610692025, 4610692026, 4610692027, 4610692028, 4610692029, 4610692030, 4610692031, 4610692032, 4610692033, 4610692034, 4610692035, 4610692036, 4610692037, 4610692038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/19/18 14:49	
Lead	ug/L	<1.0	1.0	04/19/18 14:49	

LABORATORY CONTROL SAMPLE: 82927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	19.8	99	85-115	
Lead	ug/L	20	20.3	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82928 82929

Parameter	Units	4610692019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	30.2	20	20	48.5	48.8	92	93	70-130	0	20	
Lead	ug/L	<1.0	20	20	20.0	21.3	95	102	70-130	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82931 82932

Parameter	Units	4610692034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	20.4	20	20	40.5	41.6	101	106	70-130	3	20	
Lead	ug/L	1.1	20	20	21.1	21.5	100	102	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: Burton 188BS18121
Pace Project No.: 4610692

QC Batch: 21001 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4610692039, 4610692040, 4610692041, 4610692042, 4610692043, 4610692044, 4610692045, 4610692046, 4610692047, 4610692048, 4610692049, 4610692050, 4610692051, 4610692052, 4610692053, 4610692054

METHOD BLANK: 83759 Matrix: Water
Associated Lab Samples: 4610692039, 4610692040, 4610692041, 4610692042, 4610692043, 4610692044, 4610692045, 4610692046, 4610692047, 4610692048, 4610692049, 4610692050, 4610692051, 4610692052, 4610692053, 4610692054

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/23/18 11:17	
Lead	ug/L	<1.0	1.0	04/23/18 11:17	

LABORATORY CONTROL SAMPLE: 83760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.8	104	85-115	
Lead	ug/L	20	20.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83761 83762

Parameter	Units	4610692039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	1120	500	500	1650	1660	105	108	70-130	1	20	
Lead	ug/L	<1.0	20	20	21.0	20.9	103	102	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 83765 83764

Parameter	Units	4610692054 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	75.2	20	20	96.9	96.7	109	108	70-130	0	20	
Lead	ug/L	1.0	20	20	20.6	20.9	98	100	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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QUALIFIERS

Project: Burton 188BS18121
Pace Project No.: 4610692

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: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610692001	1-K-KF-3-P	EPA 200.8	20781		
4610692002	1-K-KF-3-F	EPA 200.8	20781		
4610692003	1-K-KF-5-P	EPA 200.8	20781		
4610692004	1-K-KF-5-F	EPA 200.8	20781		
4610692005	1-K-KF-4-P	EPA 200.8	20781		
4610692006	1-K-KF-4-F	EPA 200.8	20781		
4610692007	1-K-KF-2-P	EPA 200.8	20781		
4610692008	1-K-KF-2-F	EPA 200.8	20781		
4610692009	1-K-KF-6-P	EPA 200.8	20781		
4610692010	1-K-KF-6-F	EPA 200.8	20781		
4610692011	1-K-KF-1-P	EPA 200.8	20781		
4610692012	1-K-KF-1-F	EPA 200.8	20781		
4610692013	1-A-WC-1-P	EPA 200.8	20781		
4610692014	1-A-WC-1-F	EPA 200.8	20781		
4610692015	1-A-WC-2-P	EPA 200.8	20781		
4610692016	1-A-WC-2-F	EPA 200.8	20781		
4610692017	1-B-WC-1-P	EPA 200.8	20781		
4610692018	1-B-WC-1-F	EPA 200.8	20781		
4610692019	1-G-WC-1-P	EPA 200.8	20782		
4610692020	1-G-WC-1-F	EPA 200.8	20782		
4610692021	1-BL-B-1-P	EPA 200.8	20782		
4610692022	1-BL-B-1-F	EPA 200.8	20782		
4610692023	1-B-WC-2-P	EPA 200.8	20782		
4610692024	1-B-WC-2-F	EPA 200.8	20782		
4610692025	1-B-WC-3-P	EPA 200.8	20782		
4610692026	1-B-WC-3-F	EPA 200.8	20782		
4610692027	1-GL-B-1-P	EPA 200.8	20782		
4610692028	1-GL-B-1-F	EPA 200.8	20782		
4610692029	1-C-WC-1-P	EPA 200.8	20782		
4610692030	1-C-WC-1-F	EPA 200.8	20782		
4610692031	1-GO-KF-1-P	EPA 200.8	20782		
4610692032	1-GO-KF-1-F	EPA 200.8	20782		
4610692033	1-AP-KF-1-P	EPA 200.8	20782		
4610692034	1-AP-KF-1-F	EPA 200.8	20782		
4610692035	1-SP-CF-1-P	EPA 200.8	20782		
4610692036	1-SP-CF-1-F	EPA 200.8	20782		
4610692037	1-SP-CF-2-P	EPA 200.8	20782		
4610692038	1-SP-CF-2-F	EPA 200.8	20782		
4610692039	1-D-WC-1-P	EPA 200.8	21001		
4610692040	1-D-WC-1-F	EPA 200.8	21001		
4610692041	1-121-CF-1-P	EPA 200.8	21001		
4610692042	1-121-CF-1-F	EPA 200.8	21001		
4610692043	1-115-CF-1-P	EPA 200.8	21001		
4610692044	1-115-CF-1-F	EPA 200.8	21001		
4610692045	1-115-CF-2-P	EPA 200.8	21001		
4610692046	1-115-CF-2-F	EPA 200.8	21001		
4610692047	2-A-WC-1-P	EPA 200.8	21001		
4610692048	2-A-WC-1-F	EPA 200.8	21001		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Burton 188BS18121

Pace Project No.: 4610692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610692049	2-A-WC-2-P	EPA 200.8	21001		
4610692050	2-A-WC-2-F	EPA 200.8	21001		
4610692051	1-P-B-1-P	EPA 200.8	21001		
4610692052	1-P-B-1-F	EPA 200.8	21001		
4610692053	1-P-B-2-P	EPA 200.8	21001		
4610692054	1-P-B-2-F	EPA 200.8	21001		

REPORT OF LABORATORY ANALYSIS

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WO#: 4610692

CHAIN-OF-CUSTODY / Analytical Request Document #18735

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



Section A Required Client Information

Company: ATC Group Services LLC
 Address: 45555 Humboldt Drive, Suite 100
 Novl, MI 48377
 Email To: robert.smith@atcgs.com
 Phone: 248-669-5140 Fax: 248-669-5147
 Requested Due Date/TAT: 10 days

Section C Invoice Information:

Report To: Robert Smith
 Copy To:
 Purchase Order No.:
 Project Name: Burton
 Project Number: 188BS18121
 Attention: Robert Smith
 Company Name: ATC Group Services LLC
 Address: 45555 Humboldt Drive, Suite 100
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location
 STATE: MI

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT WASTE WATER PRODUCT P SOLID SOLID OIL OIL WIPE WIPE AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N ↑	Analysis Test ↑	LEAD	COPPER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on
	4/11/18	13:25	4/11/18	13:25	4/11/18	13:25	4/11/18	13:25		
	4/11/18	17:58	4/11/18	17:58	4/11/18	17:58	4/11/18	17:58		

SAMPLER NAME AND SIGNATURE		DATE Signed		DATE Signed	
PRINT Name of SAMPLER: Kimberly Johnson		4/6/18		4/6/18	
SIGNATURE of SAMPLER: <i>Kimberly Johnson</i>		DATE Signed		DATE Signed	

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ATC Group Services LLC	Report To: Robert Smith	Attention: Robert Smith
Address: 45555 Humboldt Drive, Suite 100	Copy To:	Company Name: ATC Group Services LLC
Novi, MI 48377	Purchase Order No.:	Address: 45555 Humboldt Drive, Suite 100
Email To: robert.smith@atcgs.com	Project Name: Burton	Pace Quote Reference:
Phone: 248-669-5140 Fax: 248-669-5147	Project Number: 188BS18121	Pace Project Manager:
Requested Due Date/TAT: 10 days		Pace Profile #:

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REGULATORY AGENCY	
☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER	☐ UST ☐ RCRA ☐ 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 WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test ↑ Y/N	LEAD X	COPPER X	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB								
1	1-A-WC-1-P	DW	G	4/5/18	9:38		1			X			
2	1-A-WC-1-F	DW	G	4/5/18	9:40		1			X			
3	1-A-WC-2-P	DW	G	4/5/18	9:38		1			X			
4	1-A-WC-2-F	DW	G	4/5/18	9:40		1			X			
5	1-B-WC-1-P	DW	G	4/5/18	9:43		1			X			
6	1-B-WC-1-F	DW	G	4/5/18	9:45		1			X			
7	1-G-WC-1-P	DW	G	4/5/18	9:49		1			X			
8	1-G-WC-1-F	DW	G	4/5/18	9:51		1			X			
9	1-BL-B-1-P	DW	G	4/5/18	9:54		1			X			
10	1-BL-B-1-F	DW	G	4/5/18	9:56		1			X			
11	1-B-WC-2-P	DW	G	4/5/18	10:06		1			X			
12	1-B-WC-2-F	DW	G	4/5/18	10:08		1			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		SAMPLE CONDITIONS	
	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE	DATE	Temp in °C	Received on Ice (Y/N)
	<i>[Signature]</i>	4/11/18	<i>[Signature]</i>	4/11/18						
	<i>[Signature]</i>	4/11/18	<i>[Signature]</i>	4/11/18						

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Kimberly Johnson	DATE Signed: 4/6/18
SIGNATURE of SAMPLER: <i>[Signature]</i>	

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document # 18738

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

Page: 1 of 5

Section A

Required Client Information:		Required Project Information:	
Company:	ATC Group Services LLC	Report To:	Robert Smith
Address:	45555 Humboldt Drive, Suite 100	Copy To:	
	Novi, MI 48377	Purchase Order No.:	
Email To:	robert.smith@atogs.com	Project Name:	Burton
Phone:	248-669-5140	Fax:	248-669-5147
Requested Due Date/TAT:	10 days	Project Number:	188BS18121

Section B

Invoice Information:	
Attention:	Robert Smith
Company Name:	ATC Group Services LLC
Address:	45555 Humboldt Drive, Suite 100
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

Section C

REGULATORY AGENCY	
☐ NPDES	☐ GROUND WATER
☐ UST	☐ RCRA
☐ OTHER	☐ OTHER
Site Location	MI
STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WATER WT PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)										Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			Unpreserved												
1		1-SP-CF-2-P	DW	G	4/5/18	10:33		1													
2		1-SP-CF-2-F	DW	G	4/5/18	10:35		1													
3		1-D-WC-1-P	DW	G	4/5/18	10:38		1													
4		1-D-WC-1-F	DW	G	4/5/18	10:40		1													
5		1-121-CF-1-P	DW	G	4/5/18	10:44		1													
6		1-121-CF-1-F	DW	G	4/5/18	10:46		1													
7		1-115-CF-1-P	DW	G	4/5/18	10:51		1													
8		1-115-CF-1-F	DW	G	4/5/18	10:53		1													
9		1-115-CF-2-P	DW	G	4/5/18	10:52		1													
10		1-115-CF-2-F	DW	G	4/5/18	10:55		1													
11		2-A-WC-1-P	DW	G	4/5/18	11:01		1													
12		2-A-WC-1-F	DW	G	4/5/18	11:03		1													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	Temp in °C	Received on
	4/11/18	1305	4/11/18	1305		
	4/11/18	1758	4/11/18	1758		

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Kimberly Johnson
SIGNATURE of SAMPLER:	<i>Kimberly Johnson</i>
DATE Signed (MM/DD/YYYY):	4/6/18

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SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client <u>CTS</u>	Work Order #: <u>4618692</u>
Receipt Record Page/Line # <u>46-41</u>	New / Add To Project Chemist Sample #s

Recorded by (initials/date) <u>DN 4-11-18</u>	☒ Cooler ☐ Box ☐ Other	Qty Received <u>1</u>	☒ IR Gun (#202) ☐ Thermometer Used ☐ Digital Thermometer (#54) ☐ Other (#)	☐ See Additional Cooler Information Form
---	--	-----------------------	--	---

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<u>20A389</u>	<u>2346</u>							
Custody Seals: ☒ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		
Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☒ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: ☐ Yes ☐ No If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1: <u>26.5</u>	<u>0</u>	<u>26.5</u>	Sample 1:			Sample 1:		
Sample 2: <u>26.4</u>	<u>0</u>	<u>26.4</u>	Sample 2:			Sample 2:		
Sample 3: <u>26.3</u>	<u>0</u>	<u>26.3</u>	Sample 3:			Sample 3:		
3 Sample Average °C: <u>26.4</u>			3 Sample Average °C:			3 Sample Average °C:		
☐ Cooler ID on COC? ☐ VOC Trip Blank received?			☐ Cooler ID on COC? ☐ VOC Trip Blank received?			☐ Cooler ID on COC? ☐ VOC Trip Blank received?		

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

Paperwork Received

Yes	No
☒	☐ Chain of Custody record(s)? If No, Initiated By _____
☒	☐ Received for Lab Signed/Date/Time?
☐	☒ Shipping document?
☐	☐ Other _____

COC Information

☒ Pace COC	☐ Other _____
COC ID Numbers: <u>18735 - 18739</u>	

Check Sample Preservation

N/A	Yes	No
☐	☒	☐ Temperature Blank OR average sample temperature, $\geq 6^{\circ}\text{C}$?
☒	☐	☐ If either is $\geq 6^{\circ}\text{C}$, was thermal preservation required?
☒	☐	If "Yes", Project Chemist Approval Initials: _____
☐	☒	If "Yes" Completed Non Con Cooler - Cont Inventory Form?
☐	☒	Completed Sample Preservation Verification Form?
☒	☐	☒ Samples chemically preserved correctly?
☐	☐	If "No", added orange tag?
☒	☐	☒ Received pre-preserved VOC soils?
		☐ MeOH ☐ Na ₂ SO ₄

Check COC for Accuracy

Yes	No
☒	☐ Analysis Requested?
☐	☒ Sample ID matches COC?
☒	☒ Sample Date and Time matches COC?
☒	☐ Container type completed on COC?
☒	☐ All container types indicated are received?

Check for Short Hold-Time Prep/Analyses

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

Sample Condition Summary

N/A	Yes	No
☐	☒	☐ Broken containers/lids?
☐	☒	☐ Missing or incomplete labels?
☐	☒	☐ Illegible information on labels?
☐	☒	☐ Low volume received?
☐	☒	☐ Inappropriate or non-Pace containers received?
☐	☒	☐ VOC vials / TOX containers have headspace?
☐	☒	☐ Extra sample locations / containers not listed on COC?

Notes

☐ Trip Blank received	☐ Trip Blank not listed on COC
Cooler Received (Date/Time) <u>DN 4-11-18</u>	Paperwork Delivered (Date/Time) <u>DN 4-11-18</u>
≤1 Hour Goal Met?	
Yes / No	

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: <u>QTC</u>	Work Order #: <u>4610692</u>
Receipt Log #: <u>46-41</u>	Completed By (initials/date): <u>SPN 4-11-18</u>
Project Manager: _____	

COC ID #	<u>18735</u>										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:												

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 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.

COC ID #	<u>18736</u>										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

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client	QJC	Work Order #	4610692
Receipt Log #	46-41	Completed By (initials/date)	QJC 4-11-18
		Project Manager	

COC ID #	18737										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:												

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.

COC ID #	18738										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

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client <i>QTC</i>	Work Order # <i>4610692</i>
Receipt Log # <i>46-41</i>	Project Manager
Completed By (initials/date) <i>SN 4-11-18</i>	

COC ID # <i>18739</i>	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:												

**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.

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



Work Order #

Completed By (initials/date) /

Project Chemist

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]

General Comments:

Project Chemist (initials/date)