
August 30, 2018

Mathew Sam
Detroit Public Schools
1601 Farnsworth
Detroit, Michigan 48202

SUBMITTED VIA EMAIL TO: mathew.sam@detroitk12.org

**SUBJECT: Drinking Water Screening Report
 Douglass Academy
 2001 West Warren
 Detroit, Michigan**

Dear Mr. Sam:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to Pace Analytical Services, LLC, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead and copper analysis.

SCOPE OF WORK

At the request of the Detroit Public Schools (DPS), ATC collected drinking water samples as a general screening for copper and lead at the subject school. The water sampling conducted included the sampling of fixtures within teacher's lounges, kitchens, water fountains and pre-k classrooms. One (1) sample was collected at each outlet: a first draw (Primary) sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight to eighteen hours. The fixture inventory locations including the sample locations are shown on the Fixture Inventory Locations Map included under Attachment A and fixture inventory photos including the sample location photos are included in a Fixture Inventory Photo Log under Attachment B.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a unique coding system that identified: the type of drinking outlet sampled as well as the location.



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The samples were transported under chain of custody to Pace Analytical Services, LLC, located at 5560 Corporate Exchange Ct. SE Grand Rapids, MI for MDEQ drinking water certified lead and copper analysis, using analytical method EPA 200.8 rev 5.4.

FINDINGS

Analytical results indicate that eleven (11) of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. Two of the samples analyzed were above the EPA recommended limits of 1300 micrograms per liter (ug/L) for copper. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment C.

Table 1 – Water Testing Results (August 17, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Hall-B-1	Near room 150	left	6.2 ug/L	102 ug/L
1-Hall-B-2	Near room 150	right	3.4 ug/L	47.4 ug/L
1-MO-SRF-3	Main Office	Staff sink	6.0 ug/L	177 ug/L
1-Hall-B-4	Between rooms 124 & 126	left	7.2 ug/L	61.2 ug/L
1-Hall-B-5	Between rooms 124 & 126	right	12.1 ug/L	478 ug/L
2-Hall-B-6	Between rooms 224 & 226	left	15.8 ug/L	65.6 ug/L
2-Hall-B-7	Between rooms 224 & 226	right	5.0 ug/L	109 ug/L
2-Hall-DWF-8	Between rooms 234 & 236	left	7.8 ug/L	81.2 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-Hall-DWF-9	Between rooms 234 & 236	right	3.5 ug/L	110 ug/L
2-Hall-DWF-10	Near room 212	left	2.7 ug/L	129 ug/L
2-Hall-DWF-11	Near room 212	right	2.7 ug/L	175 ug/L
2-Hall-DWF-12	Between rooms 235 & 237	left	5.8 ug/L	486 ug/L
2-Hall-B-13	Between rooms 235 & 237	right	28.0 ug/L	255 ug/L
2-Hall-B-14	Between rooms 225 & 227	left	16.0 ug/L	247 ug/L
2-Hall-B-16	Between rooms 125 & 127	left	10.8 ug/L	322 ug/L
2-Hall-B-17	Between rooms 125 & 127	right	11.5 ug/L	205 ug/L
2-Hall-B-18	Between rooms 133 & 137	left	41.5 ug/L	785 ug/L
2-Hall-B-19	Between rooms 133 & 137	right	26.4 ug/L	401 ug/L
1-143-SRF-20	Room 143	Staff sink	1.1 ug/L	209 ug/L
1-Hall-DWF-21	Across from room 100A	left	4.4 ug/L	213 ug/L
1-Hall-B-22	Across from room 100A	right	20.4 ug/L	245 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-GC-SRF-23	Inside guidance center break room	Staff sink	1.8 ug/L	198 ug/L
1-100A-SRF-24	Room 100A	Staff sink	4.0 ug/L	99.7 ug/L
1-LO-SRF-25	Library Office	Staff sink	38.9 ug/L	269 ug/L
1-Gym-B-26	Gym	Bubbler	2.4 ug/L	247 ug/L
1-Gym-B-27	Gym	Bubbler	3.9 ug/L	302 ug/L
1-BLR-B-28	Boys Locker Room	Bubbler	35.6 ug/L	633 ug/L
1-GLR-B-29	Girls Locker Room	Bubbler	2.1 ug/L	107 ug/L
1-Hall-B-30	Next to auditorium	left	45.6 ug/L	1340 ug/L
1-Hall-B-31	Next to auditorium	right	52.4 ug/L	1670 ug/L
1-Hall-B-32	Inside auditorium	left	9.5 ug/L	458 ug/L
1-Hall-B-33	Inside auditorium	right	11.3 ug/L	245 ug/L
1-Hall-B-34	Next to room 163	left	8.7 ug/L	656 ug/L
1-Hall-B-35	Next to room 163	Bubbler	5.9 ug/l	602 ug/L
1-168-B-36	In room 168	Bubbler	1.2 ug/L	414 ug/L
1-Hall-B-37	Near room 169	left	15.5 ug/L	520 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Hall-B-38	Near room 169	right	3.4 ug/L	625 ug/L
1-Hall-B-39	Across from door 9	Bubbler	1.3 ug/L	158 ug/L
1-K-KS-41	Kitchen	hand sink	3.2 ug/L	166 ug/L
1-K-KS-42	Kitchen	hand sink	2.7 ug/L	107 ug/L
1-K-KS-43	Kitchen	hand sink	4.7 ug/L	53.8 ug/L
1-K-KS-44	Kitchen	3 camber sink	<1.0 ug/l	54.9 ug/L
1-K-KS-45	Kitchen	dishwasher	<1.0 ug/l	166 ug/L
1-K-KS-46	Kitchen	dishwasher	<1.0 ug/l	750 ug/L
1-K-KS-47	Kitchen	Single sink	<1.0 ug/l	90 ug/L
1-K-KS-48	Kitchen	Single sink	<1.0 ug/l	76.2 ug/L
1-K-KS-49	Kitchen	3 chamber sink	2.2 ug/L	91.5 ug/L
1-K-KS-50	Kitchen	3 chamber sink	<1.0 ug/l	27.7 ug/L
1-K-KS-51	Kitchen	3 chamber sink	<1.0 ug/l	81.4 ug/L
1-K-KS-52	Kitchen	hand sink	<1.0 ug/l	84.3 ug/L

Key: NA - Not Analyzed

ug/L- micrograms per liter /parts per billion (ppb)

Analysis of samples in between rooms 224 and 226, between rooms 235 and 237, between rooms 225 and 227, between rooms 133 and 137 indicate that lead levels were above the MCL. Analysis of samples in the bubblers next to the auditorium indicates that copper levels were above the MCL. See recommendations below.

RECOMMENDATIONS

For drinking water fixtures that exceed the MCL after the initial sampling, ATC recommends the following:

1. Implement a plan in accordance with MDEQ Guidance on Drinking Water Sampling for Lead and Copper, April, 2016 Version2; OR
2. Remove fixture from service.
3. Implement a flush plan for fixtures that exceed the MCL of the initial sample according to MDEQ Guidance and the EPA's 3T's for Reducing Lead in Drinking Water in Schools.

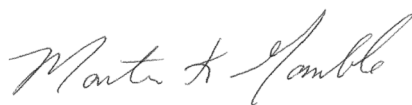
LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead and copper only, to assess lead and copper concentrations (ug/L) at drinking water outlets in the school designated as high use by DPS, and may not be representative of all drinking water outlets within the school. If lead or copper concentrations were identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumbing system, fixtures affected, and testing may be completed to assess the source of the elevated levels of lead and/or copper, as well as, any other response actions deemed necessary by DPS.

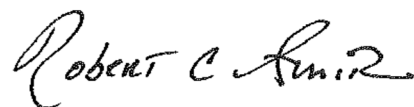
Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

ATC Group Services, LLC



Martin K. Gamble
Senior Project Manager



Robert C. Smith
Building Science Department Manager



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Novi, Michigan 48377
Telephone 248-669-5140
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Attachments

Attachment A: Fixture Inventory Locations Map/Form

Attachment B: Fixture Inventory Photo Log

Attachment C: Laboratory Analytical Report

School Name:

Douglass Academy for Young Men

Address

2001 West Warren

Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Hall- B- 1	Near room 150	left	1
1-Hall- B- 2	Near room 150	right	2
1-MO-SRF- 3	Main Office		3
1-Hall- B- 4	Between rooms 124 & 126	left	4
1-Hall- B- 5	Between rooms 124 & 126	right	5
2-Hall- B- 6	Between rooms 224 & 226	left	6
2-Hall- B- 7	Between rooms 224 & 226	right	7
2-Hall- DWF- 8	Between rooms 234 & 236	left	8
2-Hall- DWF- 9	Between rooms 234 & 236	right	9
2-Hall- DWF- 10	Near room 212	left	10
2-Hall- DWF-11	Near room 212	right	11
2-Hall- DWF- 12	Between rooms 235 & 237	left	12

2-Hall- B- 13	Between rooms 235 & 237	right	13
2-Hall- B- 14	Between rooms 225 & 227	left	14
2-Hall- B- 15	Between rooms 225 & 227	right	15
1-Hall- B- 16	Between rooms 125 & 127	left	16
1-Hall- B- 17	Between rooms 125 & 127	right	17
1-Hall- B- 18	Between rooms 133 & 137	left	18
1-Hall- B- 19	Between rooms 133 & 137	right	19
1-143-SRF-20	Room 143	Staff sink	20
1-Hall- DWF-21	Across from room 100A	left	21
1-Hall- B- 22	Across from room 100A	right	22
1-GC-SRF-23	Inside guidance center break room	Staff sink	23
1-100A-SRF-24	Room 100A	Staff sink	24
1-LO-SRF-25	Library Office	Staff sink	25
1-Gym-B-26	Gym	Bubbler	26
1-Gym-B-27	Gym	Bubbler	27
1-BLR-B-28	Boys Locker Room	Bubbler	28
1-GLR-B-29	Girls Locker Room	Bubbler	29
1-Hall-B-30	Next to auditorium	left	30
1-Hall-B-31	Next to auditorium	right	31
1-Hall-B-32	Inside auditorium	left	32
1-Hall-B-33	Inside auditorium	right	33
1-Hall-B-34	Next to room 163	left	34
1-Hall-B-35	Next to room 163	Bubbler	35
1-168-B-36	In room 168	Bubbler	36
1-Hall-B-37	Near room 169	left	37
1-Hall-B-38	Near room 169	right	38
1-Hall-B-39	Across from door 9		39
1-NO-NS-40	Nurses Office		40
1-K-KS-41	Kitchen	hand sink	41
1-K-KS-42	Kitchen	hand sink	42
1-K-KS-43	Kitchen	hand sink	43
1-K-KS-44	Kitchen	3 camber sink	44
1-K-KS-45	Kitchen	dishwasher	45
1-K-KS-46	Kitchen	dishwasher	46

1-K-KS-47	Kitchen	Single sink	47
1-K-KS-48	Kitchen	Single sink	48
1-K-KS-49	Kitchen	3 chamber sink	49
1-K-KS- 50	Kitchen	3 chamber sink	50
1-K-KS- 51	Kitchen	3 chamber sink	51
1-K-KS-52	Kitchen	hand sink	52

FIXTURE INVENTORY PHOTOLOG
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Photo 1: Bubbler, located on the 1st floor hallway.

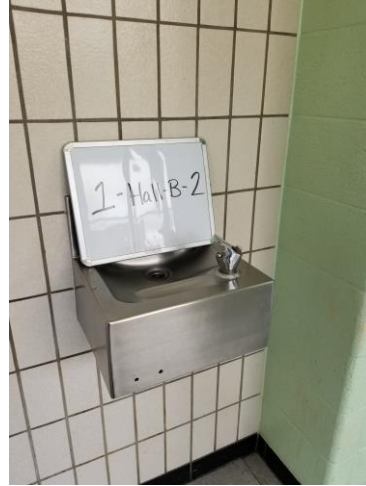


Photo 2: Bubbler, located on the 1st floor hallway.

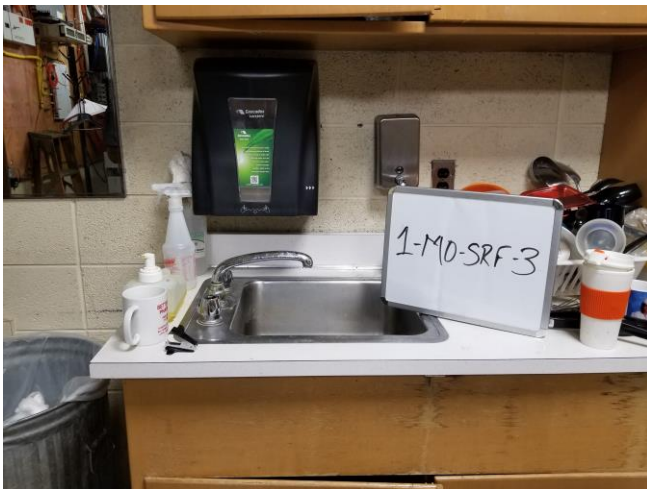


Photo 3: Staff room faucet, located on the 1st floor in the main office.



Photo 4: Bubbler, located on the 1st floor hallway. .



Photo 5: Bubbler, located on the 1st floor hallway.

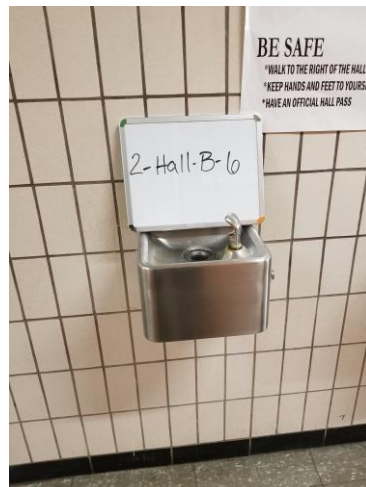


Photo 6: Bubbler, located on the 2nd floor hallway.

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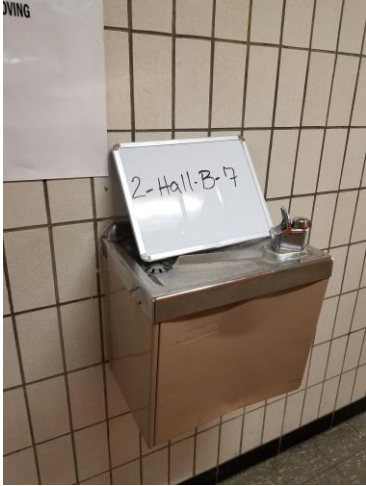


Photo 7: Drinking water fountain, located on the 2nd floor hallway.



Photo 8: Drinking water fountain, located on the 2nd floor hallway.



Photo 9: Drinking water fountain, located on the 2nd floor hallway.



Photo 10: Drinking water fountain, located on the 2nd floor hallway.



Photo 11: Drinking water fountain, located on the 2nd floor hallway.



Photo 12: Drinking water fountain, located on the 2nd floor hallway.

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Photo 13: Bubbler, located on the 2nd floor hallway.



Photo 14: Bubbler, located on the 2nd floor hallway.

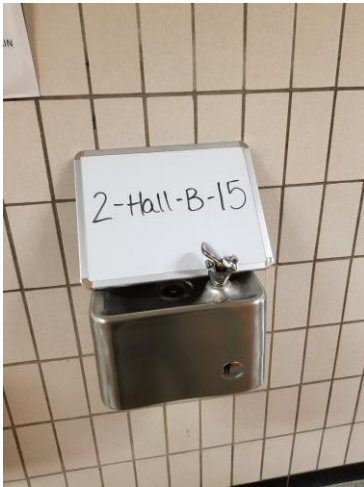


Photo 15: Bubbler, located on the 2nd floor hallway.



Photo 16: Bubbler, located on the 1st floor hallway.



Photo 17: Bubbler, located on the 1st floor hallway.



Photo 18: Bubbler, located on the 1st floor hallway.

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Photo 19: Bubbler, located on the 1st floor hallway.

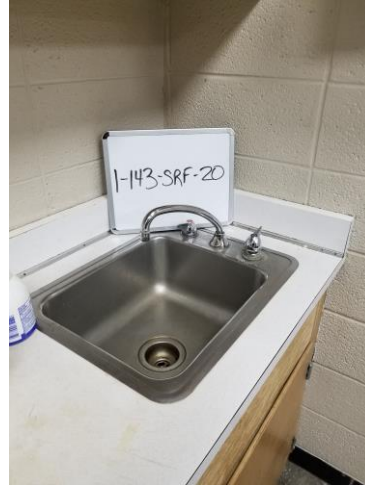


Photo 20: Staff room faucet, located on the 1st floor in room 143.



Photo 21: Drinking water fountain, located on the 1st floor hallway.



Photo 22: Bubbler, located on the 1st floor hallway.



Photo 23: Staff room faucet, located on the 1st floor in the guidance center.



Photo 24: Staff room faucet, located on the 1st floor in room 100A.

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Detroit, Michigan



Photo 25: Staff room faucet, located on the 1st floor in the library office.



Photo 26: Bubbler, located on the 1st floor in the gym.



Photo 27: Bubbler, located on the 1st floor in the gym.

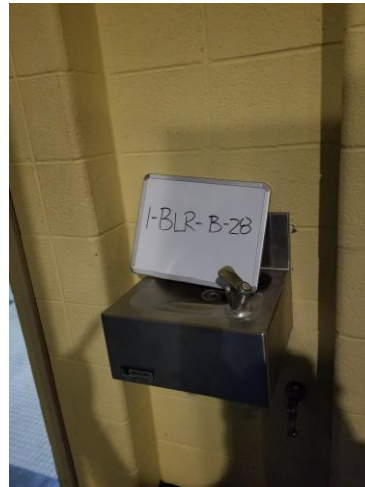


Photo 28: Bubbler, located on the 1st floor in the boys locker room.

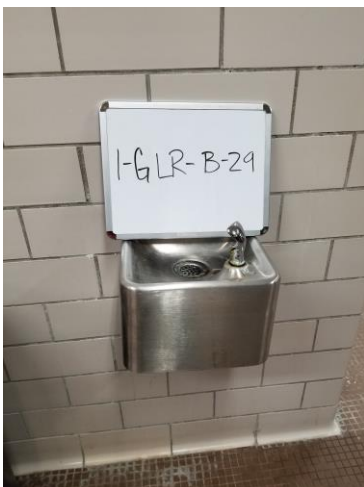


Photo 29: Bubbler, located on the 1st floor in the girls locker room.



Photo 30: Bubbler, located on the 1st floor in the hallway.

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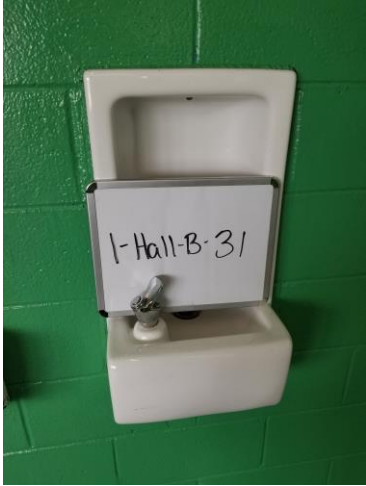


Photo 31: Bubbler, located on the 1st floor in the hallway.

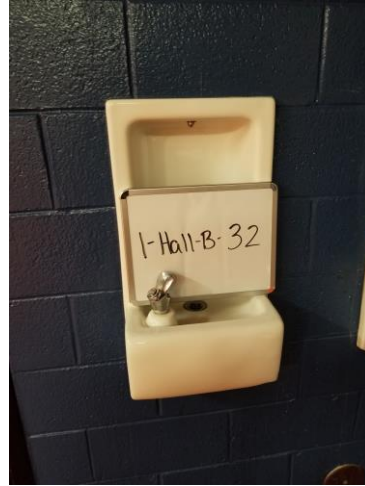


Photo 32: Bubbler, located on the 1st floor in the hallway.

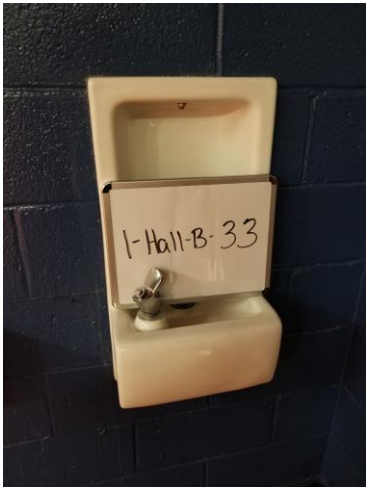


Photo 33: Bubbler, located on the 1st floor in the hallway.A.



Photo 34: Bubbler, located on the 1st floor in the hallway.



Photo 35: Bubbler, located on the 1st floor in the hallway.

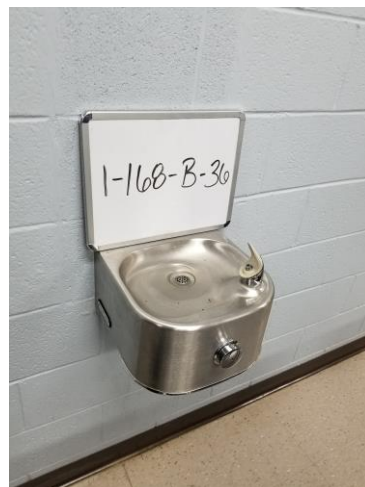


Photo 36: Bubbler, located on the 1st floor in room 168.

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Detroit, Michigan

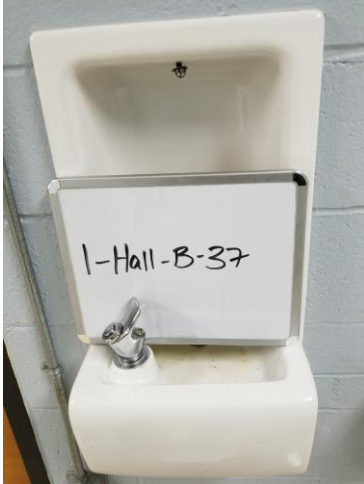


Photo 37: Bubbler, located on the 1st floor in the hallway.



Photo 38: Bubbler, located on the 1st floor in the hallway.



Photo 39: Bubbler, located on the 1st floor in the hallway.

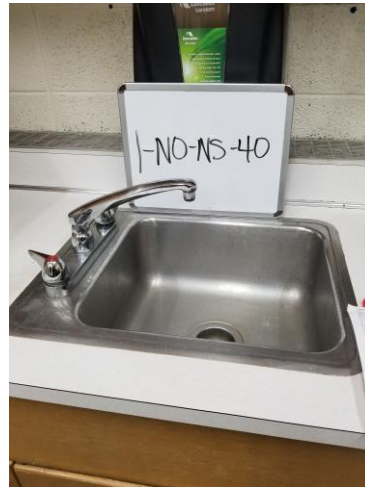


Photo 40: Nurses sink, located on the 1st floor in the nurse's odffice.



Photo 41: Kitchen sink, located on the 1st floor in the kitchen.



Photo 42: Kitchen sink, located on the 1st floor in the kitchen.

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Photo 43: Kitchen sink, located on the 1st floor in the kitchen.



Photo 44: Kitchen sink, located on the 1st floor in the kitchen.



Photo 45: Kitchen sink, located on the 1st floor in the kitchen.



Photo 46: Kitchen sink, located on the 1st floor in the kitchen.



Photo 47: Kitchen sink, located on the 1st floor in the kitchen.



Photo 48: Kitchen sink, located on the 1st floor in the kitchen.

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Detroit, Michigan

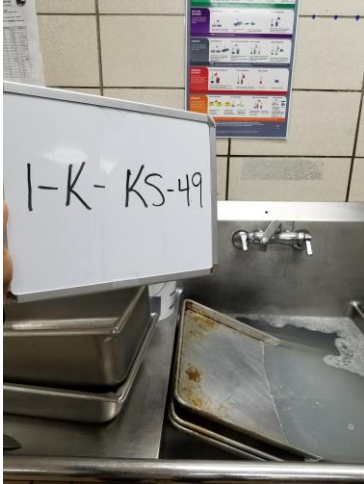


Photo 49: Kitchen sink, located on the 1st floor in the kitchen.

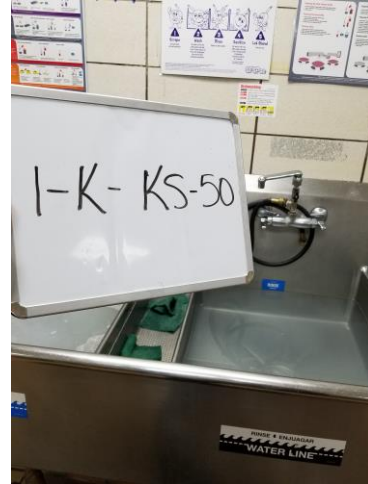


Photo 50: Kitchen sink, located on the 1st floor in the kitchen.

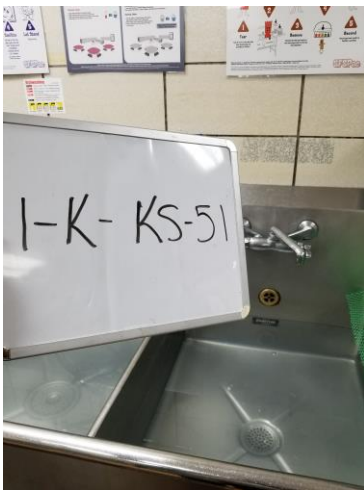


Photo 51: Kitchen sink, located on the 1st floor in the kitchen.



Photo 52: Kitchen sink, located on the 1st floor in the kitchen.

August 17, 2018

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

RE: Project: DW-Douglass Academy
Pace Project No.: 4615833

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 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,



Will Cole
will.cole@pacelabs.com
(616)975-4500
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: DW-Douglass Academy

Pace Project No.: 4615833

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
#18-046-0

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 #57971 and
57972

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9780

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: DW-Douglass Academy
Pace Project No.: 4615833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4615833001	1-Hall-B-1	Drinking Water	07/27/18 09:41	08/03/18 18:00
4615833002	1-Hall-B-2	Drinking Water	07/27/18 09:42	08/03/18 18:00
4615833003	1-MO-SRF-3	Drinking Water	07/27/18 09:44	08/03/18 18:00
4615833004	1-Hall-B-4	Drinking Water	07/27/18 09:48	08/03/18 18:00
4615833005	1-Hall-B-5	Drinking Water	07/27/18 09:49	08/03/18 18:00
4615833006	2-Hall-B-6	Drinking Water	07/27/18 09:51	08/03/18 18:00
4615833007	2-Hall-B-7	Drinking Water	07/27/18 09:52	08/03/18 18:00
4615833008	2-Hall-DWF-8	Drinking Water	07/27/18 09:54	08/03/18 18:00
4615833009	2-Hall-DWF-9	Drinking Water	07/27/18 09:55	08/03/18 18:00
4615833010	2-Hall-DWF-10	Drinking Water	07/27/18 09:57	08/03/18 18:00
4615833011	2-Hall-DWF-11	Drinking Water	07/27/18 09:58	08/03/18 18:00
4615833012	2-Hall-DWF-12	Drinking Water	07/27/18 10:00	08/03/18 18:00
4615833013	2-Hall-B-13	Drinking Water	07/27/18 10:01	08/03/18 18:00
4615833014	2-Hall-B-14	Drinking Water	07/27/18 10:02	08/03/18 18:00
4615833015	2-Hall-B-16	Drinking Water	07/27/18 10:06	08/03/18 18:00
4615833016	2-Hall-B-17	Drinking Water	07/27/18 10:07	08/03/18 18:00
4615833017	2-Hall-B-18	Drinking Water	07/27/18 10:09	08/03/18 18:00
4615833018	2-Hall-B-19	Drinking Water	07/27/18 10:10	08/03/18 18:00
4615833019	1-143-SRF-20	Drinking Water	07/27/18 11:44	08/03/18 18:00
4615833020	1-Hall-DWF-21	Drinking Water	07/27/18 10:13	08/03/18 18:00
4615833021	1-Hall-B-22	Drinking Water	07/27/18 10:14	08/03/18 18:00
4615833022	1-GC-SRF-23	Drinking Water	07/27/18 10:16	08/03/18 18:00
4615833023	1-100A-SRF-24	Drinking Water	07/27/18 11:41	08/03/18 18:00
4615833024	1-LO-SRF-25	Drinking Water	07/27/18 11:35	08/03/18 18:00
4615833025	1-Gym-B-26	Drinking Water	07/27/18 10:43	08/03/18 18:00
4615833026	1-Gym-B-27	Drinking Water	07/27/18 10:45	08/03/18 18:00
4615833027	1-BLR-B-28	Drinking Water	07/27/18 10:56	08/03/18 18:00
4615833028	1-GLR-B-29	Drinking Water	07/27/18 10:58	08/03/18 18:00
4615833029	1-Hall-B-30	Drinking Water	07/27/18 10:35	08/03/18 18:00
4615833030	1-Hall-B-31	Drinking Water	07/27/18 10:36	08/03/18 18:00
4615833031	1-Hall-B-32	Drinking Water	07/27/18 10:38	08/03/18 18:00
4615833032	1-Hall-B-33	Drinking Water	07/27/18 10:39	08/03/18 18:00
4615833033	1-Hall-B-34	Drinking Water	07/27/18 10:31	08/03/18 18:00
4615833034	1-Hall-B-35	Drinking Water	07/27/18 10:32	08/03/18 18:00
4615833035	1-168-B-36	Drinking Water	07/27/18 10:24	08/03/18 18:00
4615833036	1-Hall-B-37	Drinking Water	07/27/18 10:27	08/03/18 18:00
4615833037	1-Hall-B-38	Drinking Water	07/27/18 10:28	08/03/18 18:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DW-Douglass Academy

Pace Project No.: 4615833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4615833038	1-Hall-B-39	Drinking Water	07/27/18 11:06	08/03/18 18:00
4615833039	1-K-KS-41	Drinking Water	07/27/18 11:12	08/03/18 18:00
4615833040	1-K-KS-42	Drinking Water	07/27/18 11:13	08/03/18 18:00
4615833041	1-K-KS-43	Drinking Water	07/27/18 11:14	08/03/18 18:00
4615833042	1-K-KS-44	Drinking Water	07/27/18 11:16	08/03/18 18:00
4615833043	1-K-KS-45	Drinking Water	07/27/18 11:17	08/03/18 18:00
4615833044	1-K-KS-46	Drinking Water	07/27/18 11:18	08/03/18 18:00
4615833045	1-K-KS-47	Drinking Water	07/27/18 11:22	08/03/18 18:00
4615833046	1-K-KS-48	Drinking Water	07/27/18 11:24	08/03/18 18:00
4615833047	1-K-KS-49	Drinking Water	07/27/18 11:25	08/03/18 18:00
4615833048	1-K-KS-50	Drinking Water	07/27/18 11:25	08/03/18 18:00
4615833049	1-K-KS-51	Drinking Water	07/27/18 11:26	08/03/18 18:00
4615833050	1-K-KS-52	Drinking Water	07/27/18 11:27	08/03/18 18:00

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SAMPLE ANALYTE COUNT

Project: DW-Douglass Academy
Pace Project No.: 4615833

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4615833001	1-Hall-B-1	EPA 200.8	DSC	2
4615833002	1-Hall-B-2	EPA 200.8	DSC	2
4615833003	1-MO-SRF-3	EPA 200.8	DSC	2
4615833004	1-Hall-B-4	EPA 200.8	DSC	2
4615833005	1-Hall-B-5	EPA 200.8	DSC	2
4615833006	2-Hall-B-6	EPA 200.8	DSC	2
4615833007	2-Hall-B-7	EPA 200.8	DSC	2
4615833008	2-Hall-DWF-8	EPA 200.8	DSC	2
4615833009	2-Hall-DWF-9	EPA 200.8	DSC	2
4615833010	2-Hall-DWF-10	EPA 200.8	DSC	2
4615833011	2-Hall-DWF-11	EPA 200.8	DSC	2
4615833012	2-Hall-DWF-12	EPA 200.8	DSC	2
4615833013	2-Hall-B-13	EPA 200.8	DSC	2
4615833014	2-Hall-B-14	EPA 200.8	DSC	2
4615833015	2-Hall-B-16	EPA 200.8	DWJ	2
4615833016	2-Hall-B-17	EPA 200.8	DWJ	2
4615833017	2-Hall-B-18	EPA 200.8	DWJ	2
4615833018	2-Hall-B-19	EPA 200.8	DWJ	2
4615833019	1-143-SRF-20	EPA 200.8	DWJ	2
4615833020	1-Hall-DWF-21	EPA 200.8	DWJ	2
4615833021	1-Hall-B-22	EPA 200.8	DWJ	2
4615833022	1-GC-SRF-23	EPA 200.8	DWJ	2
4615833023	1-100A-SRF-24	EPA 200.8	DWJ	2
4615833024	1-LO-SRF-25	EPA 200.8	DWJ	2
4615833025	1-Gym-B-26	EPA 200.8	DWJ	2
4615833026	1-Gym-B-27	EPA 200.8	DWJ	2
4615833027	1-BLR-B-28	EPA 200.8	DWJ	2
4615833028	1-GLR-B-29	EPA 200.8	DWJ	2
4615833029	1-Hall-B-30	EPA 200.8	DWJ	2
4615833030	1-Hall-B-31	EPA 200.8	DWJ	2
4615833031	1-Hall-B-32	EPA 200.8	DWJ	2
4615833032	1-Hall-B-33	EPA 200.8	DWJ	2
4615833033	1-Hall-B-34	EPA 200.8	DWJ	2
4615833034	1-Hall-B-35	EPA 200.8	DWJ	2
4615833035	1-168-B-36	EPA 200.8	DWJ	2
4615833036	1-Hall-B-37	EPA 200.8	DWJ	2
4615833037	1-Hall-B-38	EPA 200.8	DWJ	2

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SAMPLE ANALYTE COUNT

Project: DW-Douglass Academy

Pace Project No.: 4615833

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4615833038	1-Hall-B-39	EPA 200.8	DWJ	2
4615833039	1-K-KS-41	EPA 200.8	DWJ	2
4615833040	1-K-KS-42	EPA 200.8	DWJ	2
4615833041	1-K-KS-43	EPA 200.8	DWJ	2
4615833042	1-K-KS-44	EPA 200.8	DWJ	2
4615833043	1-K-KS-45	EPA 200.8	DWJ	2
4615833044	1-K-KS-46	EPA 200.8	DWJ	2
4615833045	1-K-KS-47	EPA 200.8	DWJ	2
4615833046	1-K-KS-48	EPA 200.8	DWJ	2
4615833047	1-K-KS-49	EPA 200.8	DWJ	2
4615833048	1-K-KS-50	EPA 200.8	DWJ	2
4615833049	1-K-KS-51	EPA 200.8	DWJ	2
4615833050	1-K-KS-52	EPA 200.8	DWJ	2

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-1		Lab ID: 4615833001		Collected: 07/27/18 09:41		Received: 08/03/18 18:00		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	102	ug/L	5.0	1300	5		08/10/18 11:38	7440-50-8	
Lead	6.2	ug/L	1.0	15	1		08/09/18 16:57	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-2		Lab ID: 4615833002		Collected: 07/27/18 09:42		Received: 08/03/18 18:00		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	47.4	ug/L	1.0	1300	1		08/09/18 17:02	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		08/09/18 17:02	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-MO-SRF-3		Lab ID: 4615833003		Collected: 07/27/18 09:44		Received: 08/03/18 18:00		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	177	ug/L	5.0	1300	5		08/10/18 11:44	7440-50-8	
Lead	6.0	ug/L	1.0	15	1		08/09/18 17:06	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-4		Lab ID: 4615833004		Collected: 07/27/18 09:48		Received: 08/03/18 18:00		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	61.2	ug/L	1.0	1300	1		08/09/18 17:08	7440-50-8	
Lead	7.2	ug/L	1.0	15	1		08/09/18 17:08	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-5		Lab ID: 4615833005		Collected: 07/27/18 09:49		Received: 08/03/18 18:00		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	478	ug/L	10.0	1300	10		08/10/18 11:45	7440-50-8	
Lead	12.1	ug/L	1.0	15	1		08/09/18 17:09	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-6		Lab ID: 4615833006		Collected: 07/27/18 09:51		Received: 08/03/18 18:00		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	65.6	ug/L	1.0	1300	1		08/09/18 17:11	7440-50-8	
Lead	15.8	ug/L	1.0	15	1		08/09/18 17:11	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-7		Lab ID: 4615833007		Collected: 07/27/18 09:52		Received: 08/03/18 18:00		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	109	ug/L	5.0	1300	5		08/10/18 11:47	7440-50-8	
Lead	5.0	ug/L	1.0	15	1		08/09/18 17:12	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-DWF-8		Lab ID: 4615833008		Collected: 07/27/18 09:54		Received: 08/03/18 18:00		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	81.2	ug/L	1.0	1300	1		08/09/18 17:13	7440-50-8	
Lead	7.8	ug/L	1.0	15	1		08/09/18 17:13	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-DWF-9		Lab ID: 4615833009		Collected: 07/27/18 09:55		Received: 08/03/18 18:00		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	110	ug/L	5.0	1300	5		08/10/18 11:51	7440-50-8	
Lead	3.5	ug/L	1.0	15	1		08/09/18 17:15	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-DWF-10		Lab ID: 4615833010		Collected: 07/27/18 09:57		Received: 08/03/18 18:00		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	129	ug/L	5.0	1300	5		08/10/18 11:53	7440-50-8	
Lead	2.7	ug/L	1.0	15	1		08/09/18 17:16	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-DWF-11		Lab ID: 4615833011		Collected: 07/27/18 09:58		Received: 08/03/18 18:00		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	175	ug/L	5.0	1300	5		08/10/18 11:54	7440-50-8	
Lead	2.7	ug/L	1.0	15	1		08/09/18 17:17	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-DWF-12		Lab ID: 4615833012		Collected: 07/27/18 10:00		Received: 08/03/18 18:00		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	486	ug/L	10.0	1300	10		08/10/18 11:56	7440-50-8	
Lead	5.8	ug/L	1.0	15	1		08/09/18 17:19	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-13		Lab ID: 4615833013		Collected: 07/27/18 10:01		Received: 08/03/18 18:00		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	255	ug/L	5.0	1300	5		08/10/18 11:57	7440-50-8	
Lead	28.0	ug/L	1.0	15	1		08/09/18 17:23	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-14		Lab ID: 4615833014		Collected: 07/27/18 10:02		Received: 08/03/18 18:00		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		08/10/18 11:58	7440-50-8	
Lead	16.0	ug/L	1.0	15	1		08/09/18 17:24	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-16		Lab ID: 4615833015		Collected: 07/27/18 10:06		Received: 08/03/18 18:00		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	322	ug/L	10.0	1300	10		08/15/18 12:30	7440-50-8	
Lead	10.8	ug/L	1.0	15	1		08/13/18 10:44	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-17		Lab ID: 4615833016		Collected: 07/27/18 10:07		Received: 08/03/18 18:00		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	205	ug/L	5.0	1300	5		08/15/18 12:35	7440-50-8	
Lead	11.5	ug/L	1.0	15	1		08/13/18 10:50	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-18		Lab ID: 4615833017		Collected: 07/27/18 10:09		Received: 08/03/18 18:00		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	785	ug/L	10.0	1300	10		08/15/18 12:36	7440-50-8	
Lead	41.5	ug/L	1.0	15	1		08/13/18 10:51	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 2-Hall-B-19		Lab ID: 4615833018		Collected: 07/27/18 10:10		Received: 08/03/18 18:00		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	401	ug/L	10.0	1300	10		08/15/18 12:38	7440-50-8	
Lead	26.4	ug/L	1.0	15	1		08/13/18 10:52	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-143-SRF-20		Lab ID: 4615833019		Collected: 07/27/18 11:44		Received: 08/03/18 18:00		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	209	ug/L	5.0	1300	5		08/15/18 12:39	7440-50-8	
Lead	1.1	ug/L	1.0	15	1		08/13/18 10:53	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-DWF-21		Lab ID: 4615833020		Collected: 07/27/18 10:13		Received: 08/03/18 18:00		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	213	ug/L	5.0	1300	5		08/15/18 12:41	7440-50-8	
Lead	4.4	ug/L	1.0	15	1		08/13/18 10:54	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-22		Lab ID: 4615833021		Collected: 07/27/18 10:14		Received: 08/03/18 18:00		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	245	ug/L	5.0	1300	5		08/15/18 12:42	7440-50-8	
Lead	20.4	ug/L	1.0	15	1		08/13/18 10:55	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-GC-SRF-23		Lab ID: 4615833022		Collected: 07/27/18 10:16		Received: 08/03/18 18:00		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	198	ug/L	5.0	1300	5		08/15/18 12:47	7440-50-8	
Lead	1.8	ug/L	1.0	15	1		08/13/18 10:56	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-100A-SRF-24		Lab ID: 4615833023		Collected: 07/27/18 11:41		Received: 08/03/18 18:00		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	99.7	ug/L	1.0	1300	1		08/13/18 10:57	7440-50-8	
Lead	4.0	ug/L	1.0	15	1		08/13/18 10:57	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-LO-SRF-25		Lab ID: 4615833024		Collected: 07/27/18 11:35		Received: 08/03/18 18:00		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	269	ug/L	5.0	1300	5		08/15/18 12:48	7440-50-8	
Lead	38.9	ug/L	1.0	15	1		08/13/18 11:00	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Gym-B-26		Lab ID: 4615833025		Collected: 07/27/18 10:43		Received: 08/03/18 18:00		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		08/15/18 12:49	7440-50-8	
Lead	2.4	ug/L	1.0	15	1		08/13/18 14:45	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Gym-B-27		Lab ID: 4615833026		Collected: 07/27/18 10:45		Received: 08/03/18 18:00		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	302	ug/L	10.0	1300	10		08/15/18 12:51	7440-50-8	
Lead	3.9	ug/L	1.0	15	1		08/13/18 11:02	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-BLR-B-28		Lab ID: 4615833027		Collected: 07/27/18 10:56		Received: 08/03/18 18:00		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	633	ug/L	10.0	1300	10		08/15/18 12:52	7440-50-8	
Lead	35.6	ug/L	1.0	15	1		08/13/18 11:04	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-GLR-B-29		Lab ID: 4615833028		Collected: 07/27/18 10:58		Received: 08/03/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ICPMS Metals, Total		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Copper	107	ug/L	5.0	1300	5	08/09/18 07:20	08/14/18 09:21	7440-50-8	
Lead	2.1	ug/L	1.0	15	1	08/09/18 07:20	08/14/18 08:21	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-30		Lab ID: 4615833029		Collected: 07/27/18 10:35		Received: 08/03/18 18:00		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	1340	ug/L	50.0	1300	50		08/15/18 12:53	7440-50-8	
Lead	45.6	ug/L	1.0	15	1		08/13/18 11:05	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-31		Lab ID: 4615833030		Collected: 07/27/18 10:36		Received: 08/03/18 18:00		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	1670	ug/L	50.0	1300	50		08/15/18 12:55	7440-50-8	
Lead	52.4	ug/L	1.0	15	1		08/13/18 11:06	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-32		Lab ID: 4615833031		Collected: 07/27/18 10:38		Received: 08/03/18 18:00		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	458	ug/L	10.0	1300	10		08/15/18 12:56	7440-50-8	
Lead	9.5	ug/L	1.0	15	1		08/13/18 11:07	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-33		Lab ID: 4615833032		Collected: 07/27/18 10:39		Received: 08/03/18 18:00		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	245	ug/L	5.0	1300	5		08/15/18 12:58	7440-50-8	
Lead	11.3	ug/L	1.0	15	1		08/13/18 11:08	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-34		Lab ID: 4615833033		Collected: 07/27/18 10:31		Received: 08/03/18 18:00		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	656	ug/L	10.0	1300	10		08/15/18 12:59	7440-50-8	
Lead	8.7	ug/L	1.0	15	1		08/13/18 11:09	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-35		Lab ID: 4615833034		Collected: 07/27/18 10:32		Received: 08/03/18 18:00		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	602	ug/L	10.0	1300	10		08/15/18 13:03	7440-50-8	
Lead	5.9	ug/L	1.0	15	1		08/13/18 11:10	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-168-B-36		Lab ID: 4615833035		Collected: 07/27/18 10:24		Received: 08/03/18 18:00		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	414	ug/L	10.0	1300	10		08/15/18 13:09	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		08/13/18 11:18	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-37		Lab ID: 4615833036		Collected: 07/27/18 10:27		Received: 08/03/18 18:00		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	520	ug/L	10.0	1300	10		08/15/18 13:10	7440-50-8	
Lead	15.5	ug/L	1.0	15	1		08/13/18 11:19	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-38		Lab ID: 4615833037		Collected: 07/27/18 10:28		Received: 08/03/18 18:00		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	625	ug/L	10.0	1300	10		08/15/18 13:11	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		08/13/18 11:20	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-Hall-B-39		Lab ID: 4615833038		Collected: 07/27/18 11:06		Received: 08/03/18 18:00		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	158	ug/L	10.0	1300	10		08/15/18 13:13	7440-50-8	
Lead	1.3	ug/L	1.0	15	1		08/13/18 11:21	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-41		Lab ID: 4615833039		Collected: 07/27/18 11:12		Received: 08/03/18 18:00		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	166	ug/L	10.0	1300	10		08/15/18 13:14	7440-50-8	
Lead	3.2	ug/L	1.0	15	1		08/13/18 11:22	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-42		Lab ID: 4615833040		Collected: 07/27/18 11:13		Received: 08/03/18 18:00		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	107	ug/L	5.0	1300	5		08/15/18 13:16	7440-50-8	
Lead	2.7	ug/L	1.0	15	1		08/13/18 11:25	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-43		Lab ID: 4615833041		Collected: 07/27/18 11:14		Received: 08/03/18 18:00		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	53.8	ug/L	1.0	1300	1		08/13/18 11:29	7440-50-8	
Lead	4.7	ug/L	1.0	15	1		08/13/18 11:29	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-44		Lab ID: 4615833042		Collected: 07/27/18 11:16		Received: 08/03/18 18:00		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	54.9	ug/L	1.0	1300	1		08/13/18 11:30	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:30	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-45		Lab ID: 4615833043		Collected: 07/27/18 11:17		Received: 08/03/18 18:00		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	166	ug/L	5.0	1300	5		08/15/18 13:25	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:31	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-46		Lab ID: 4615833044		Collected: 07/27/18 11:18		Received: 08/03/18 18:00		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	750	ug/L	10.0	1300	10		08/15/18 13:26	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:32	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-47		Lab ID: 4615833045		Collected: 07/27/18 11:22		Received: 08/03/18 18:00		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	90.0	ug/L	1.0	1300	1		08/13/18 11:33	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:33	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-48		Lab ID: 4615833046		Collected: 07/27/18 11:24		Received: 08/03/18 18:00		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	76.2	ug/L	1.0	1300	1		08/13/18 11:34	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:34	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-49		Lab ID: 4615833047		Collected: 07/27/18 11:25		Received: 08/03/18 18:00		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	91.5	ug/L	1.0	1300	1		08/13/18 11:37	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		08/13/18 11:37	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-50		Lab ID: 4615833048		Collected: 07/27/18 11:25		Received: 08/03/18 18:00		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	27.7	ug/L	1.0	1300	1		08/13/18 11:38	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:38	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-51		Lab ID: 4615833049		Collected: 07/27/18 11:26		Received: 08/03/18 18:00		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	81.4	ug/L	1.0	1300	1		08/13/18 11:40	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:40	7439-92-1	

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ANALYTICAL RESULTS

Project: DW-Douglass Academy

Pace Project No.: 4615833

Sample: 1-K-KS-52		Lab ID: 4615833050		Collected: 07/27/18 11:27		Received: 08/03/18 18:00		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	84.3	ug/L	1.0	1300	1		08/13/18 11:41	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		08/13/18 11:41	7439-92-1	

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QUALITY CONTROL DATA

Project: DW-Douglass Academy
Pace Project No.: 4615833

QC Batch: 30336 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4615833001, 4615833002, 4615833003, 4615833004, 4615833005, 4615833006, 4615833007, 4615833008, 4615833009, 4615833010, 4615833011, 4615833012, 4615833013, 4615833014

METHOD BLANK: 122060 Matrix: Water
Associated Lab Samples: 4615833001, 4615833002, 4615833003, 4615833004, 4615833005, 4615833006, 4615833007, 4615833008, 4615833009, 4615833010, 4615833011, 4615833012, 4615833013, 4615833014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/09/18 16:39	
Lead	ug/L	<1.0	1.0	08/09/18 16:39	

LABORATORY CONTROL SAMPLE: 122061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.3	101	85-115	
Lead	ug/L	20	20.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122062 122063

Parameter	Units	4615705045 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	342	200	200	540	532	99	95	70-130	1	20	
Lead	ug/L	1.2	20	20	21.0	20.5	99	97	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122065 122066

Parameter	Units	4615833001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	102	100	100	194	197	92	95	70-130	2	20	
Lead	ug/L	6.2	20	20	26.5	26.1	102	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.

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QUALITY CONTROL DATA

Project: DW-Douglass Academy
Pace Project No.: 4615833

QC Batch: 30425 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4615833015, 4615833016, 4615833017, 4615833018, 4615833019, 4615833020, 4615833021, 4615833022, 4615833023, 4615833024, 4615833025, 4615833026, 4615833027, 4615833029, 4615833030, 4615833031, 4615833032, 4615833033, 4615833034

METHOD BLANK: 122492 Matrix: Water
Associated Lab Samples: 4615833015, 4615833016, 4615833017, 4615833018, 4615833019, 4615833020, 4615833021, 4615833022, 4615833023, 4615833024, 4615833025, 4615833026, 4615833027, 4615833029, 4615833030, 4615833031, 4615833032, 4615833033, 4615833034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/13/18 10:42	
Lead	ug/L	<1.0	1.0	08/13/18 10:42	

LABORATORY CONTROL SAMPLE: 122493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	19.7	99	85-115	
Lead	ug/L	20	19.5	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122494 122495

Parameter	Units	4615833015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	322	200	200	522	531	100	105	70-130	2	20	
Lead	ug/L	10.8	20	20	30.9	31.0	101	101	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122497 122498

Parameter	Units	4615833034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	602	200	200	751	800	75	99	70-130	6	20	
Lead	ug/L	5.9	20	20	25.6	25.5	98	98	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

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

QUALITY CONTROL DATA

Project: DW-Douglass Academy
Pace Project No.: 4615833

QC Batch: 30426 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4615833035, 4615833036, 4615833037, 4615833038, 4615833039, 4615833040, 4615833041, 4615833042, 4615833043, 4615833044, 4615833045, 4615833046, 4615833047, 4615833048, 4615833049, 4615833050

METHOD BLANK: 122500 Matrix: Water
Associated Lab Samples: 4615833035, 4615833036, 4615833037, 4615833038, 4615833039, 4615833040, 4615833041, 4615833042, 4615833043, 4615833044, 4615833045, 4615833046, 4615833047, 4615833048, 4615833049, 4615833050

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/13/18 11:16	
Lead	ug/L	<1.0	1.0	08/13/18 11:16	

LABORATORY CONTROL SAMPLE: 122501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.2	101	85-115	
Lead	ug/L	20	19.6	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122502 122503

Parameter	Units	4615833040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	107	100	100	197	197	90	90	70-130	0	20	
Lead	ug/L	2.7	20	20	22.8	22.4	100	98	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 122505 122506

Parameter	Units	4615834004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	44.8	20	20	65.3	62.9	103	91	70-130	4	20	
Lead	ug/L	2.4	20	20	23.1	22.2	103	99	70-130	4	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DW-Douglass Academy

Pace Project No.: 4615833

QC Batch: 30168

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Associated Lab Samples: 4615833028

METHOD BLANK: 121068

Matrix: Water

Associated Lab Samples: 4615833028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/14/18 08:18	
Lead	ug/L	<1.0	1.0	08/14/18 08:18	

LABORATORY CONTROL SAMPLE: 121069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	50.9	102	85-115	
Lead	ug/L	50	51.1	102	85-115	

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: DW-Douglass Academy

Pace Project No.: 4615833

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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: DW-Douglass Academy

Pace Project No.: 4615833

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4615833001	1-Hall-B-1	EPA 200.8	30336		
4615833002	1-Hall-B-2	EPA 200.8	30336		
4615833003	1-MO-SRF-3	EPA 200.8	30336		
4615833004	1-Hall-B-4	EPA 200.8	30336		
4615833005	1-Hall-B-5	EPA 200.8	30336		
4615833006	2-Hall-B-6	EPA 200.8	30336		
4615833007	2-Hall-B-7	EPA 200.8	30336		
4615833008	2-Hall-DWF-8	EPA 200.8	30336		
4615833009	2-Hall-DWF-9	EPA 200.8	30336		
4615833010	2-Hall-DWF-10	EPA 200.8	30336		
4615833011	2-Hall-DWF-11	EPA 200.8	30336		
4615833012	2-Hall-DWF-12	EPA 200.8	30336		
4615833013	2-Hall-B-13	EPA 200.8	30336		
4615833014	2-Hall-B-14	EPA 200.8	30336		
4615833015	2-Hall-B-16	EPA 200.8	30425		
4615833016	2-Hall-B-17	EPA 200.8	30425		
4615833017	2-Hall-B-18	EPA 200.8	30425		
4615833018	2-Hall-B-19	EPA 200.8	30425		
4615833019	1-143-SRF-20	EPA 200.8	30425		
4615833020	1-Hall-DWF-21	EPA 200.8	30425		
4615833021	1-Hall-B-22	EPA 200.8	30425		
4615833022	1-GC-SRF-23	EPA 200.8	30425		
4615833023	1-100A-SRF-24	EPA 200.8	30425		
4615833024	1-LO-SRF-25	EPA 200.8	30425		
4615833025	1-Gym-B-26	EPA 200.8	30425		
4615833026	1-Gym-B-27	EPA 200.8	30425		
4615833027	1-BLR-B-28	EPA 200.8	30425		
4615833029	1-Hall-B-30	EPA 200.8	30425		
4615833030	1-Hall-B-31	EPA 200.8	30425		
4615833031	1-Hall-B-32	EPA 200.8	30425		
4615833032	1-Hall-B-33	EPA 200.8	30425		
4615833033	1-Hall-B-34	EPA 200.8	30425		
4615833034	1-Hall-B-35	EPA 200.8	30425		
4615833035	1-168-B-36	EPA 200.8	30426		
4615833036	1-Hall-B-37	EPA 200.8	30426		
4615833037	1-Hall-B-38	EPA 200.8	30426		
4615833038	1-Hall-B-39	EPA 200.8	30426		
4615833039	1-K-KS-41	EPA 200.8	30426		
4615833040	1-K-KS-42	EPA 200.8	30426		
4615833041	1-K-KS-43	EPA 200.8	30426		
4615833042	1-K-KS-44	EPA 200.8	30426		
4615833043	1-K-KS-45	EPA 200.8	30426		
4615833044	1-K-KS-46	EPA 200.8	30426		
4615833045	1-K-KS-47	EPA 200.8	30426		
4615833046	1-K-KS-48	EPA 200.8	30426		
4615833047	1-K-KS-49	EPA 200.8	30426		
4615833048	1-K-KS-50	EPA 200.8	30426		
4615833049	1-K-KS-51	EPA 200.8	30426		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DW-Douglass Academy

Pace Project No.: 4615833

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4615833050	1-K-KS-52	EPA 200.8	30426		
4615833028	1-GLR-B-29	EPA 200.8	30168	EPA 200.8	30602

REPORT OF LABORATORY ANALYSIS

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WO# : 4615833



4615833

CF-CUSTODY / Analytical Request Document

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

20208

Page : 1 Of 5

Section A

Required Client Information:

Company:	ATC Group Services LLC	Report To:	Robert Smith
Address:	46555 Humboldt Drive, Suite 100	Copy To:	
Novi, MI 48377		Purchase Order #:	
Email:	robert.smith@atcgs.com	Project Name:	Lead & Copper Testing
Phone:	248-669-5140	Project #:	Douglas Academy
Requested Due Date:			

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Will Cole
Pace Profile #:	Profile 236 - Line 2

Regulatory Agency

State / Location

MI

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Solid/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL QL WP AB OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
	12.0.100.100		7/27/2018		15:41		12.0.100.100		8/13/18		14:00			
	12.0.100.100		8/13/18		18:00		12.0.100.100		8/13/18		18:00			

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Andrew D. Ketchum
SIGNATURE of SAMPLER:	DATE Signed: 7/27/2018

WD#4615833

#70209

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:	
Address:	46555 Humboldt Drive, Suite 100 Novi, MI 48377	Copy To:		Company Name:	
Email:	robert.smith@atcds.com	Purchase Order #:		Address:	
Phone:	248-669-5140 Fax: 248-669-5147	Project Name:	Lead & Copper Testing	Pace Quote:	
Requested Due Date:		Project #:	Douglas Academy	Pace Project Manager:	Will Cole
			Pace Profile #: Profile 236 - Line 2		

Regulatory Agency	
State / Location	
MI	

ITEM #	MATRIX	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Analyses Test	Y/N	Preservatives	Residual Chlorine (Y/N)
				START	END																
				DATE	TIME	DATE	TIME														
13	2-Hall- B- 13	DW	DW G	7/27/2018	1001			1													
14	2-Hall- B- 14	DW	DW G	7/27/2018	1002			1													
15	1-Hall- B- 16	DW	DW G	7/27/2018	1006			1													
16	1-Hall- B- 17	DW	DW G	7/27/2018	1007			1													
17	1-Hall- B- 18	DW	DW G	7/27/2018	1009			1													
18	1-Hall- B- 19	DW	DW G	7/27/2018	1010			1													
19	1-143-SRF-20	DW	DW G	7/27/2018	1144			1													
20	1-Hall- DWF-21	DW	DW G	7/27/2018	1013			1													
21	1-Hall- B- 22	DW	DW G	7/27/2018	1014			1													
22	1-GC-SRF-23	DW	DW G	7/27/2018	1016			1													
23	1-100A-SRF-24	DW	DW G	7/27/2018	1141			1													
24	1-LO-SRF-25	DW	DW G	7/27/2018	1135			1													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
	60/60/ATC		7/27/2018		1545		8/31/18		1400					
	8/31/18		8/31/18		1800		8/31/18		1800					

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER:							
Andrew D. Ketchum							
DATE Signed:							
7/27/2018							

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WA#4615833

#20211

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services LLC	Report To:	Robert Smith	Attention:	
Address:	46555 Humboldt Drive, Suite 100	Copy To:		Company Name:	
City:	Ivory, MI 48377	Purchase Order #:		Address:	
Email:	robert.smith@atcgs.com	Project Name:	Lead & Copper Testing	Pace Quote:	
Phone:	248-669-5140	Requested Due Date:		Pace Project Manager:	Will Cole
				Pace Profile #:	Profile 236 - Line 2
				Regulatory Agency	
				State / Location	
				MI	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Analyses Test	Lead & Copper	Residual Chlorine (Y/N)
			START	END					H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
																</				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
													Received on	Ice	Custody	Sealed
	Will Cole	ATC	7/27/2018	1541			Andrew D. Kaichum		8/31/18	1400						
	Will Cole	ATC	8/31/18				Andrew D. Kaichum		8/31/18	1800						

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Andrew D. Kaichum
SIGNATURE of SAMPLER:	DATE Signed: 7/27/2018



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services LLC	Report To:	Robert Smith	Attention:	
Address:	46555 Humboldt Drive, Suite 100	Copy To:		Company Name:	
	Novi, MI 48377			Address:	
Email:	robert.smith@atcgs.com	Purchase Order #:			Regulatory Agency
Phone:	248-669-5140	Project Name:	Lead & Copper Testing	Pace Quote:	
Requested Due Date:	Fax: 248-669-5147			Pace Project Manager:	Will Cole
		Project #:	Douglass Academy	Pace Profile #:	Profile 236 - Line 2
				State / Location	

Page : 5 Of 5

[illegible]

SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical®

Client ATC - Douglass Acad
Receipt Record Page/Line # (30-35)

Work Order # 4615833

Recorded by (initials/date)

AW 08/03/18

☐ Cooler
☐ Box
☐ Other

Qty Received

1

Thermometer Used

☒ IR Gun (#202)
☐ Digital Thermometer (#54)
☐ IR Gun (#402)

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<u>Pace 510889</u>	<u>2011</u>							
Custody Seals:		Custody Seals:		Custody Seals:		Custody Seals:		
<input checked="" type="checkbox"/> None		<input type="checkbox"/> None		<input type="checkbox"/> None		<input type="checkbox"/> None		
<input type="checkbox"/> Present / Intact		<input type="checkbox"/> Present / Intact		<input type="checkbox"/> Present / Intact		<input type="checkbox"/> Present / Intact		
<input type="checkbox"/> Present / Not Intact		<input type="checkbox"/> Present / Not Intact		<input type="checkbox"/> Present / Not Intact		<input type="checkbox"/> Present / Not Intact		
Coolant Type:		Coolant Type:		Coolant Type:		Coolant Type:		
<input type="checkbox"/> Loose Ice		<input type="checkbox"/> Loose Ice		<input type="checkbox"/> Loose Ice		<input type="checkbox"/> Loose Ice		
<input type="checkbox"/> Bagged Ice		<input type="checkbox"/> Bagged Ice		<input type="checkbox"/> Bagged Ice		<input type="checkbox"/> Bagged Ice		
<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Blue Ice		
<input checked="" type="checkbox"/> None		<input type="checkbox"/> None		<input type="checkbox"/> None		<input type="checkbox"/> None		
Coolant Location:		Coolant Location:		Coolant Location:		Coolant Location:		
Dispersed / Top / Middle / Bottom		Dispersed / Top / Middle / Bottom		Dispersed / Top / Middle / Bottom		Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		
If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		
<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<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:			Temp Blank:			Temp Blank:		
Sample 1: <u>25.6</u>		<u>25.6</u>	Sample 1:			Sample 1:		
Sample 2: <u>25.4</u>		<u>25.4</u>	Sample 2:			Sample 2:		
Sample 3: <u>25.5</u>		<u>25.5</u>	Sample 3:			Sample 3:		
When above 6 °C take a			When above 6 °C take a			When above 6 °C take a		
3 Sample Average °C: <u>25.5</u>			3 Sample Average °C:			3 Sample Average °C:		
<input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance

Paperwork Received

Yes No
☐ ☒ Chain of Custody record(s)? If No, Initiated By _____
☐ Received for Lab Signed/Date/Time?
☐ ☐ USDA Soil Documents?
☐ ☐ Sampling / Field Forms?
☐ ☐ Other _____

COC Information

☐ Pace COC ☐ Other _____

COC ID Numbers:

20208 20209, 20210, 20211, 20212

Check COC for Accuracy

Yes No
☒ ☐ Analysis Requested?
☒ ☐ Sample ID matches COC?
☒ ☐ Sample Date and Time matches COC?
☒ ☐ All containers indicated are received?

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 have headspace?
☒ ☐ Extra sample locations?
☒ ☐ Containers not listed on COC?

Check Sample Preservation

N/A Yes No
☒ ☐ Temperature Blank OR average sample temperature, ≥6° C?
☐ ☐ If "Yes" was thermal preservation required?
☐ ☒ If "Yes" were ALL samples collected the same day as receipt?
☐ ☐ Completed Sample Preservation Verification Form?
☐ ☒ Samples chemically preserved correctly?
If "No", add wire tag and fill out Non-Conformance Form?
☐ ☐ Received unpreserved Terracore kit?
If "Yes" unpreserved vials must be frozen

Work Order Not Logged In with Short Hold / Rush

☐ Copies of COC To Lab Areas

Notes

Yes No
☒ ☐ Were all samples logged into Epic?
☒ ☐ Were all samples labelled?
☒ ☐ Were samples placed on scan locations?

Initial / Date :

AW 08/03/18



Pace Analytical®

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client ATC-Douglass Academy (30-35)	Work Order # 4615833
Receipt Log #	Completed By (initials/date) aw 08/03/18

COC ID # 20208										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG30	BP1-4S		AG2S		3 BP1-4N Total		BP1-4N Dissolved					
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 #☐ HC739245☐ 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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

COC ID # 20209										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG30	BP1-4S		AG2S		3 BP1-4N Total		BP1-4N Dissolved					
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	ATC - Douglass Academy (30-35)	Work Order # 4615833
Receipt Log #	Completed By (initials/date) <i>dw</i> 08/03/18	

COC ID # 20210										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG3O		BP1-4S		AG2S		3 BP1-4N Total		BP1-4N Dissolved				
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 #
☒ HC739245
☐ 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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire 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	BP3C or AG3O		BP1-4S		AG2S		3 BP1-4N Total		BP1-4N Dissolved				
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 ATC - Douglass Academy	Work Order # 4615833
Receipt Log # (30-35)	Completed By (initials/date) aw 08/03/18

COC ID # 20212										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG30		BP1-4S		AG2S		3 BP1-4N Total ¹		BP1-4N Dissolved				
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 #
☒ **HC739245**
☐ **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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire 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	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved				
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