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September 11, 2018

Mathew Sam  
Detroit Public Schools  
1601 Farnsworth  
Detroit, Michigan 48202

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

**SUBJECT:     Drinking Water Screening Report  
                  Wright, Charles Lower Academy  
                  19299 Berg Road  
                  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 one (1) of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. None 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 30, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Gym-DWF-1	Gym	Drinking Water Fountain - Left	<1.0 ug/L	259 ug/L
1-Gym-DWF-2	Gym	Drinking Water Fountain - Right	<1.0 ug/L	185 ug/L
1-Hall@122-DWF-3	Hall across from room 122	Drinking Water Fountain - Left	<1.0 ug/L	524 ug/L
1-Hall@122-DWF-4	Hall across from room 122	Drinking Water Fountain - Center	<1.0 ug/L	170 ug/L
1-Hall@122-DWF-5	Hall across from room 122	Drinking Water Fountain - Right	<1.0 ug/L	67.9 ug/L
1-Kitchen-KF-6	Kitchen (against wall)	Kitchen Faucet - Left (dish washing)	2.3 ug/L	243 ug/L
1-Kitchen-KF-7	Kitchen (against wall)	Kitchen Faucet - Center (dish washing)	<1.0 ug/L	453 ug/L
1-Kitchen-KF-8	Kitchen (against wall)	Kitchen Faucet - Right (dish washing)	<1.0 ug/L	496 ug/L
1-Kitchen-KF-10	Kitchen (center)	Kitchen Faucet	8.0 ug/L	248 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-119-CF-13	Room 119	Classroom Faucet w/Bubbler	<1.0 ug/L	430 ug/L
1-127-KF-14	Room 127 (teacher's lounge)	Kitchen Faucet	<b>35.0 ug/L</b>	618 ug/L
1-116-CF-17	Room 116	Classroom Faucet w/Bubbler	1.2 ug/L	352 ug/L
1-Hall@100E-KF-18	Hall across from room 100E (main office)	Kitchen Faucet	1.9 ug/L	276 ug/L
1-100I-KF-19	Room 100I (in main office area)	Kitchen Faucet	3.6 ug/L	198 ug/L
1-100L-KF-20	Room 100L (in main office area)	Kitchen Faucet	2.4 ug/L	279 ug/L
1-Hall@105-DWF-21	Hall to the right of room 105	Drinking Water Fountain - Left	1.1 ug/L	427ug/L
1-Hall@105-DWF-22	Hall to the right of room 105	Drinking Water Fountain - Right	1.3 ug/L	423ug/L
1-113-CF-23	Room 113	Classroom Faucet w/Bubbler	8.2 ug/L	937 ug/L
1-108-CF-27	Room 108	Classroom Faucet w/Bubbler	<1.0 ug/L	301 ug/L
1-109-CF-29	Room 109	Classroom Faucet w/Bubbler	<1.0 ug/L	506 ug/L
1-110-CF-31	Room 110	Classroom Faucet w/Bubbler	3.0 ug/L	466 ug/L
1-112-CF-35	Room 112	Classroom Faucet w/Bubbler	1.8 ug/L	359 ug/L
2-200-CF-37	Room 200	Classroom Faucet w/Bubbler	<1.0 ug/L	300 ug/L
2-Hall@200-DWF-38	Hall across from room 200	Drinking Water Fountain - Left	1.2 ug/L	316 ug/L
2-Hall@200-DWF-39	Hall across from room 200	Drinking Water Fountain - Right	<1.0 ug/L	297 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-201-CF-40	Room 201	Classroom Faucet w/Bubbler	1.6 ug/L	237 ug/L
2-202-CF-41	Room 202	Classroom Faucet w/Bubbler	1.7 ug/L	262 ug/L
2-224-CF-42	Room 224	Classroom Faucet w/Bubbler	2.5 ug/L	296 ug/L
2-218-CF-43	Room 218 (currently used as storage room)	Classroom Faucet w/Bubbler	3.8 ug/L	272 ug/L
2-223-CF-44	Room 223	Classroom Faucet w/Bubbler	1.2 ug/L	286 ug/L
2-222-CF-45	Room 222	Classroom Faucet w/Bubbler	<1.0 ug/L	350 ug/L
2-221-CF-46	Room 221	Classroom Faucet w/Bubbler	1.2 ug/L	287 ug/L
2-219-CF-47	Room 219	Classroom Faucet w/Bubbler	1.7 ug/L	280 ug/L
2-220-CF-48	Room 220	Classroom Faucet w/Bubbler	2.1 ug/L	279 ug/L
2-203-CF-49	Room 203	Classroom Faucet w/Bubbler	<1.0 ug/L	294 ug/L
2-204-CF-50	Room 204	Classroom Faucet w/Bubbler	3.5 ug/L	422 ug/L
2-215-CF-51	Room 215	Classroom Faucet w/Bubbler	<1.0 ug/L	289 ug/L
2-213-CF-53	Room 213	Classroom Faucet w/Bubbler	<1.0 ug/L	320 ug/L
2-205-CF-56	Room 205	Classroom Faucet w/Bubbler	<1.0 ug/L	316 ug/L
2-207-CF-57	Room 207	Classroom Faucet w/Bubbler	<1.0 ug/L	313 ug/L
2-208-CF-58	Room 208	Classroom Faucet w/Bubbler	<1.0 ug/L	375 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-211-CF-59	Room 211	Classroom Faucet w/Bubbler	2.0 ug/L	366 ug/L
2-Hall@209-60	Hall near room 209	Drinking Water Fountain - Left	<1.0 ug/L	267 ug/L
2-Hall@209-61	Hall near room 209	Drinking Water Fountain - Right	<1.0 ug/L	199 ug/L

Key: NA - Not Analyzed

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

Analysis of samples of the kitchen faucet indicate that lead levels were above the MCL. No samples indicate 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.



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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**

A handwritten signature in black ink that reads "Martin K. Gamble".

Martin K. Gamble  
Senior Project Manager

A handwritten signature in black ink that reads "Robert C. Smith".

Robert C. Smith  
Building Science Department Manager

Attachments

- Attachment A: Fixture Inventory Locations Map/Form
- Attachment B: Fixture Inventory Photo Log
- Attachment C: Laboratory Analytical Report

School Name:

Wright, Charles Lower Academy

Address

19299 Berg Road, Detroit, MI 48219

Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Gym-DWF-1	Gym	Drinking Water Fountain - Left	1
1-Gym-DWF-2	Gym	Drinking Water Fountain - Right	2
1-Hall@122-DWF-3	Hall across from room 122	Drinking Water Fountain - Left	3
1-Hall@122-DWF-4	Hall across from room 122	Drinking Water Fountain - Center	4
1-Hall@122-DWF-5	Hall across from room 122	Drinking Water Fountain - Right	5
1-Kitchen-KF-6	Kitchen (against wall)	Kitchen Faucet - Left (dish washing)	6
1-Kitchen-KF-7	Kitchen (against wall)	Kitchen Faucet - Center (dish washing)	7
1-Kitchen-KF-8	Kitchen (against wall)	Kitchen Faucet - Right (dish washing)	8
1-Kitchen-KF-9	Kitchen (against wall)	Kitchen Faucet (hand washing)	9
1-Kitchen-KF-10	Kitchen (center)	Kitchen Faucet	10
1-Kitchen-KF-11	Kitchen (across from KF-10)	Kitchen Faucet (hand washing)	11

School Name:

Wright, Charles Lower Academy

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Fixture Identification	Fixture Location	Fixture Description	Photo #
1-Kitchen-KF-12	Kitchen serving area	Kitchen Faucet (hand washing)	12
1-119-CF-13	Room 119	Classroom Faucet w/Bubbler	13
1-127-KF-14	Room 127 (teacher's lounge)	Kitchen Faucet	14
1-118-CF-15	Room 118	Classroom Faucet w/Bubbler- Not Working	15
1-117-CF-16	Room 117	Classroom Faucet w/Bubbler- Not Working	16
1-116-CF-17	Room 116	Classroom Faucet w/Bubbler	17
1-Hall@100E-KF-18	Hall across from room 100E (main office)	Kitchen Faucet	18
1-100I-KF-19	Room 100I (in main office area)	Kitchen Faucet	19
1-100L-KF-20	Room 100L (in main office area)	Kitchen Faucet	20
1-Hall@105-DWF-21	Hall to the right of room 105	Drinking Water Fountain - Left	21
1-Hall@105-DWF-22	Hall to the right of room 105	Drinking Water Fountain - Right	22



School Name:

Wright, Charles Lower Academy

Address

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Fixture Identification	Fixture Location	Fixture Description	Photo #
1-113-CF-23	Room 113	Classroom Faucet w/Bubbler	23
1-113-CF-24	Room 113	Classroom Faucet	24
1-107-CF-25	Room 107	Classroom Faucet w/Bubbler- Not Working	25
1-107-CF-26	Room 107	Classroom Faucet	26
1-108-CF-27	Room 108	Classroom Faucet w/Bubbler	27
1-108-CF-28	Room 108	Classroom Faucet	28
1-109-CF-29	Room 109	Classroom Faucet w/Bubbler	29
1-109-CF-30	Room 109	Classroom Faucet	30
1-110-CF-31	Room 110	Classroom Faucet w/Bubbler	31
1-110-CF-32	Room 110	Classroom Faucet	32
1-111-CF-33	Room 111	Classroom Faucet w/Bubbler- Not Working	33

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Fixture Identification	Fixture Location	Fixture Description	Photo #
1-111-CF-34	Room 111	Classroom Faucet	34
1-112-CF-35	Room 112	Classroom Faucet w/Bubbler	35
1-112-CF-36	Room 112	Classroom Faucet	36
2-200-CF-37	Room 200	Classroom Faucet w/Bubbler	37
2-Hall@200-DWF-38	Hall across from room 200	Drinking Water Fountain - Left	38
2-Hall@200-DWF-39	Hall across from room 200	Drinking Water Fountain - Right	39
2-201-CF-40	Room 201	Classroom Faucet w/Bubbler	40
2-202-CF-41	Room 202	Classroom Faucet w/Bubbler	41
2-224-CF-42	Room 224	Classroom Faucet w/Bubbler	42
2-218-CF-43	Room 218 (currently used as storage room)	Classroom Faucet w/Bubbler	43
2-223-CF-44	Room 223	Classroom Faucet w/Bubbler	44

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Fixture Identification	Fixture Location	Fixture Description	Photo #
2-222-CF-45	Room 222	Classroom Faucet w/Bubbler	45
2-221-CF-46	Room 221	Classroom Faucet w/Bubbler	46
2-219-CF-47	Room 219	Classroom Faucet w/Bubbler	47
2-220-CF-48	Room 220	Classroom Faucet w/Bubbler	48
2-203-CF-49	Room 203	Classroom Faucet w/Bubbler	49
2-204-CF-50	Room 204	Classroom Faucet w/Bubbler	50
2-215-CF-51	Room 215	Classroom Faucet w/Bubbler	51
2-214-CF-52	Room 214	Classroom Faucet w/Bubbler- Not Working	52
2-213-CF-53	Room 213	Classroom Faucet w/Bubbler	53
2-212-CF-54	Room 212	Classroom Faucet w/Bubbler	54
2-206-CF-55	Room 206	Classroom Faucet w/Bubbler- Not Working	55

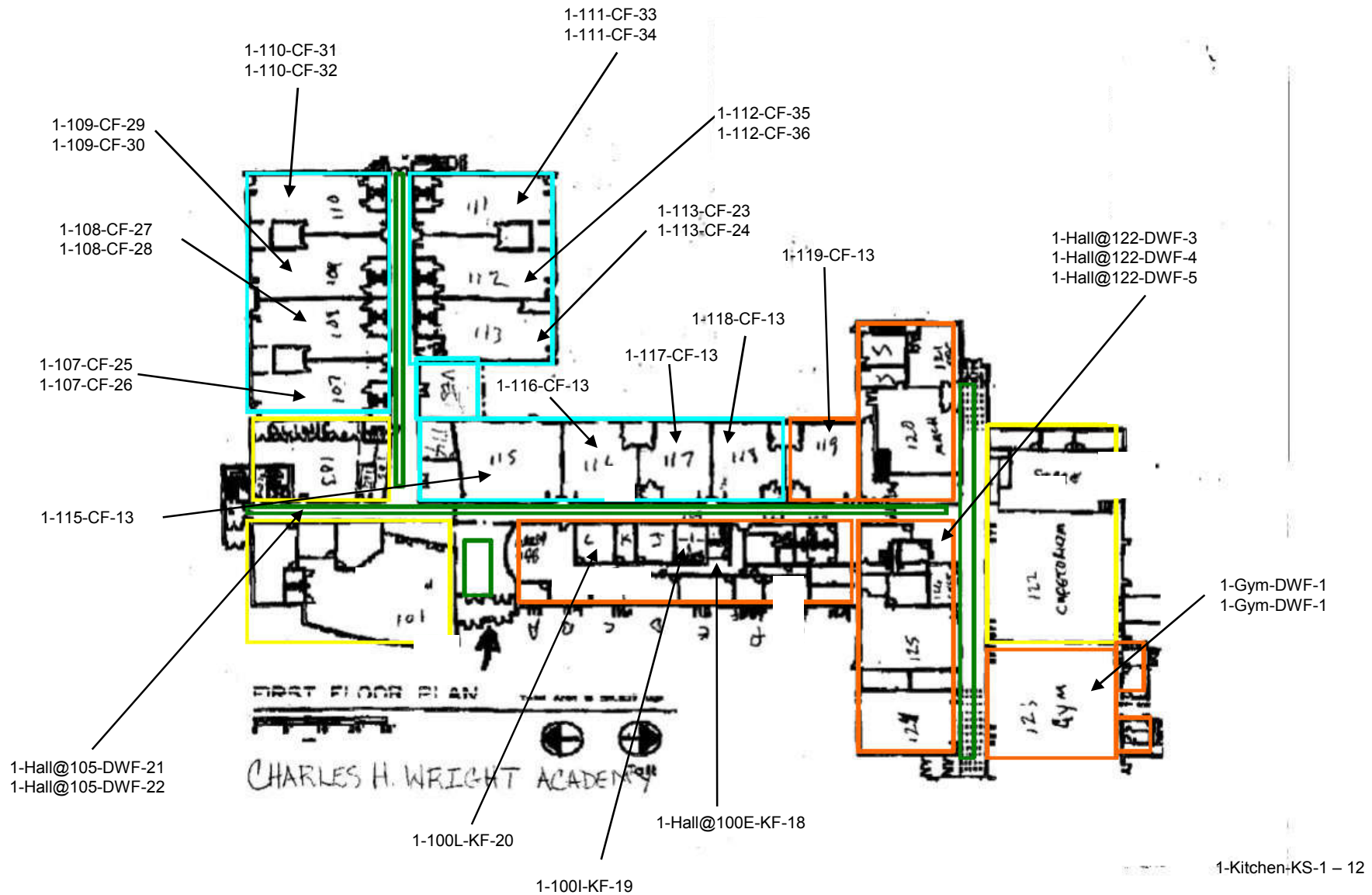
School Name:

Wright, Charles Lower Academy

Address

19299 Berg Road, Detroit, MI 48219

Fixture Identification	Fixture Location	Fixture Description	Photo #
2-205-CF-56	Room 205	Classroom Faucet w/Bubbler	55
2-207-CF-57	Room 207	Classroom Faucet w/Bubbler	56
2-208-CF-58	Room 208	Classroom Faucet w/Bubbler	57
2-211-CF-59	Room 211	Classroom Faucet w/Bubbler	58
2-Hall@209-60	Hall near room 209	Drinking Water Fountain - Left	59
2-Hall@209-61	Hall near room 209	Drinking Water Fountain - Right	60
2-227-B-62	Room 227	Bubbler- Not working	61



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Charles Wright Academy  
19299 Berg Road, Detroit, MI 48219

Fixture Inventory Diagram

Floor #1

PROJECT NUMBER: 188BS18437

FIGURE: 1

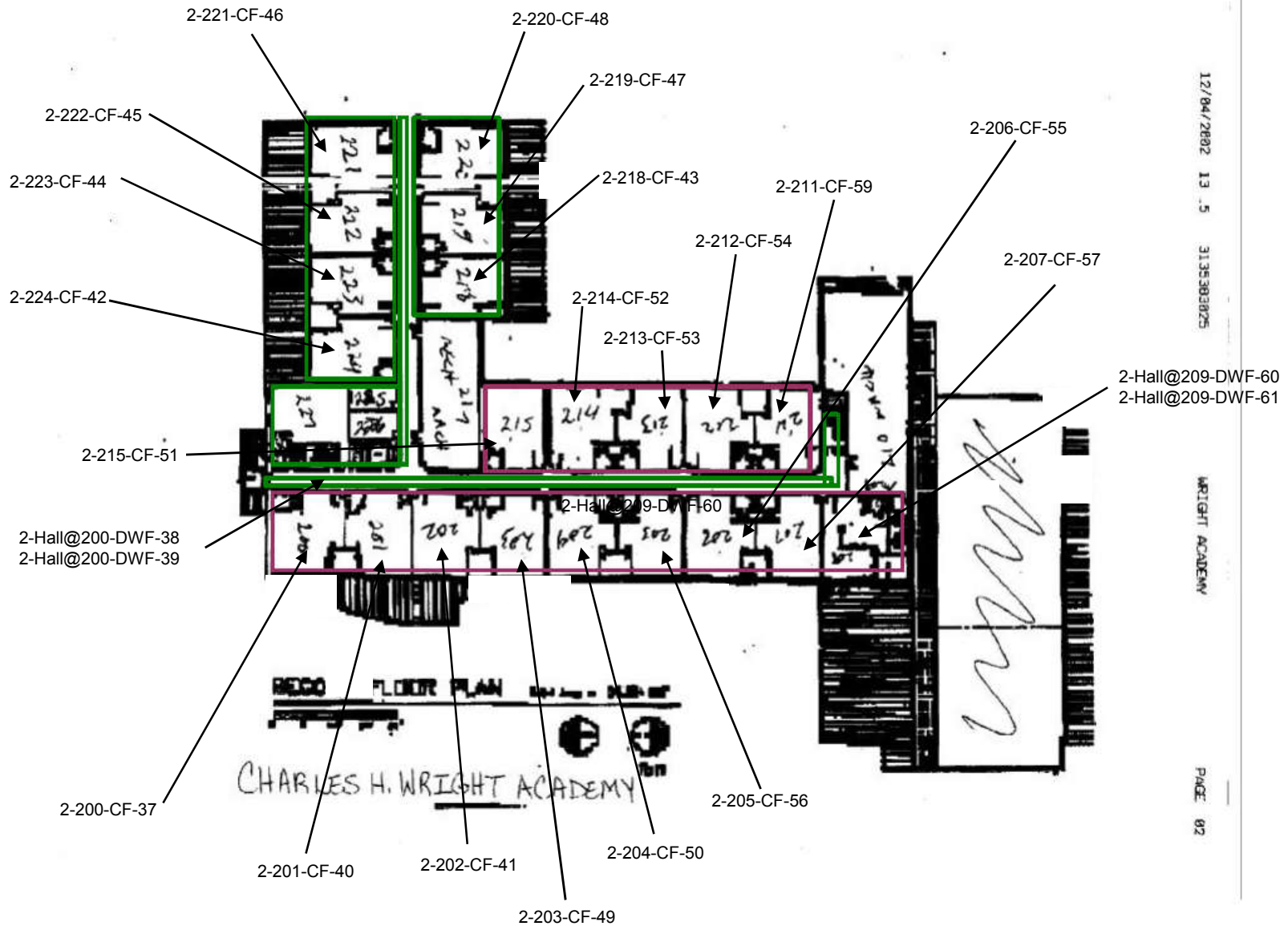
DRAWN BY: KJ

REVIEWED BY

DATE: 6/28/2018



46555 Humboldt Drive, Suite 100  
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**Fixture Inventory Diagram**

Floor #2

PROJECT NUMBER: 188BS18437	FIGURE: 2
DRAWN BY: KJ	REVIEWED BY:
	DATE: 6/28/2018



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Novi, Michigan 48377  
Ph: (248) 669-5140 ~ Fax: (248) 669-5147

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Detroit, Michigan



Photo 1: Drinking water fountain, located on the 1st floor in the gym – left fixture.



Photo 2: Drinking water fountain, located on the 1st floor in the gym – right fixture.



Photo 3: Drinking water fountain, located in a 1st floor hall, across from room 122 – left fixture.

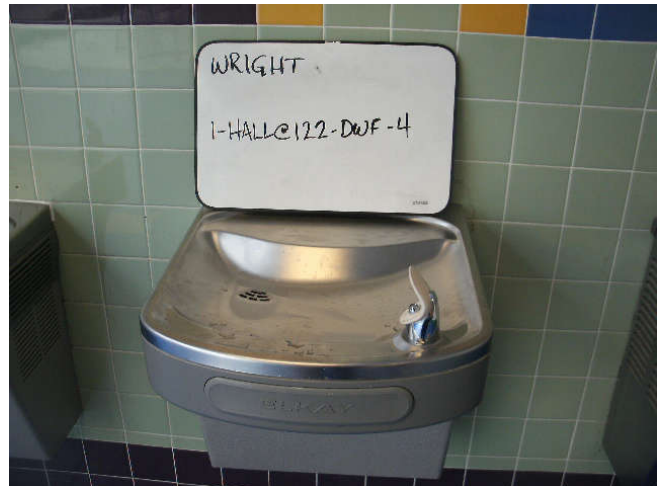


Photo 4: Drinking water fountain, located in a 1st floor hall, across from room 122 – center fixture.



Photo 5: Drinking water fountain, located in a 1st floor hall, across from room 122 – right fixture.

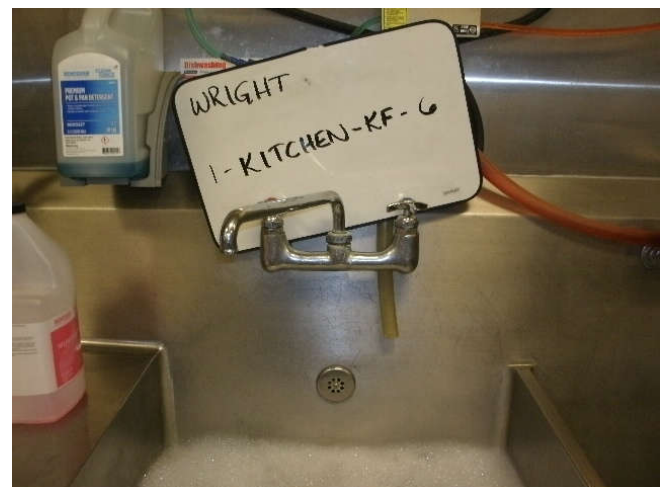


Photo 6: Kitchen faucet, located on the 1st floor in the kitchen against the wall – left fixture (dish washing).

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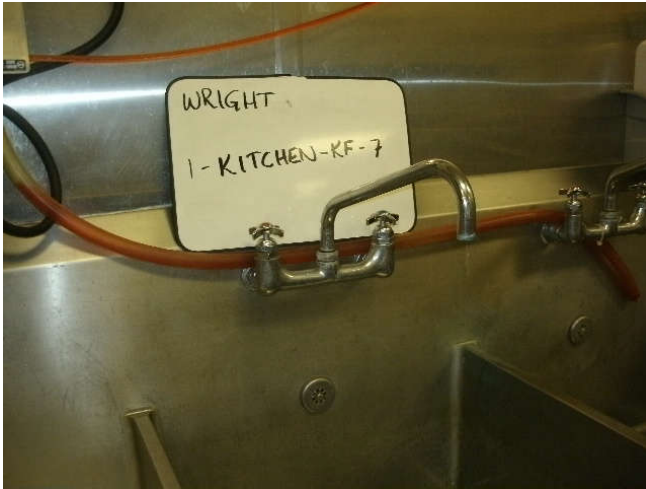


Photo 7: Kitchen faucet, located on the 1st floor in the kitchen against the wall – center fixture (dish washing).



Photo 8: Kitchen faucet, located on the 1st floor in the kitchen against the wall – right fixture (dish washing).

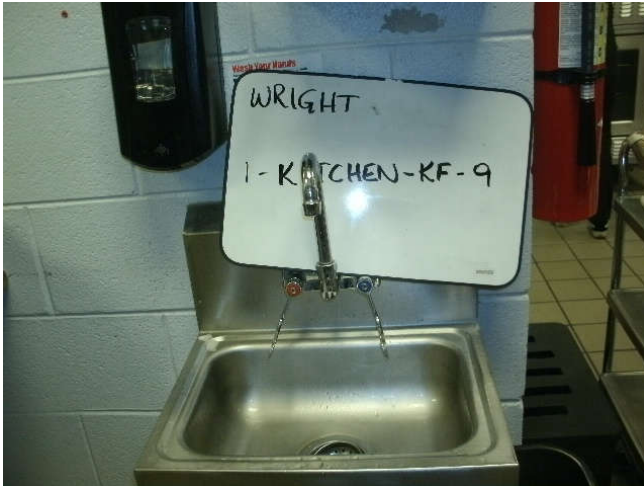


Photo 9: Kitchen faucet, located on the 1st floor in the kitchen (hand washing).



Photo 10: Kitchen faucet, located on the 1st floor in the kitchen, in the center.



Photo 11: Kitchen faucet, located on the 1st floor in the kitchen, across from KF-10 (hand washing).



Photo 12: Kitchen faucet, located on the 1st floor in the kitchen serving area (hand washing).



FIXTURE INVENTORY PHOTOLOG  
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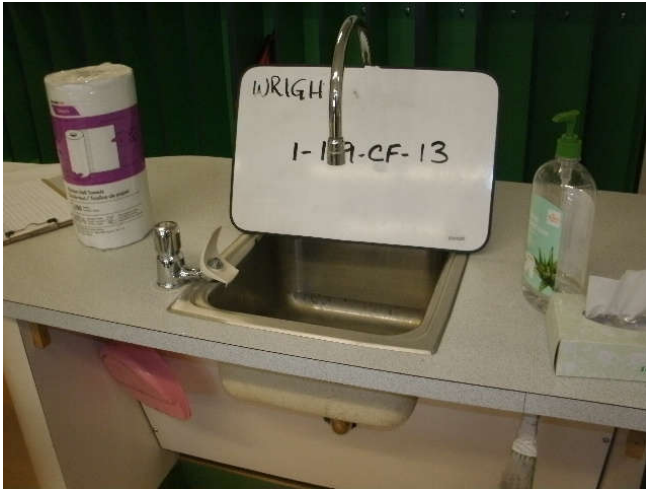


Photo 13: Classroom faucet w/bubbler, located on the 1<sup>st</sup> floor, in room 109.



Photo 14: Kitchen faucet, located on the 1<sup>st</sup> floor, in room 127 (teacher's lounge).

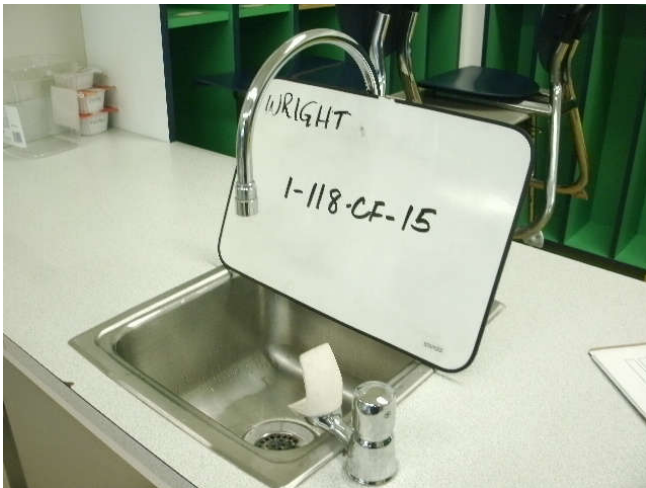


Photo 15: Classroom faucet w/bubbler, located on the 1<sup>st</sup> floor, in room 118.

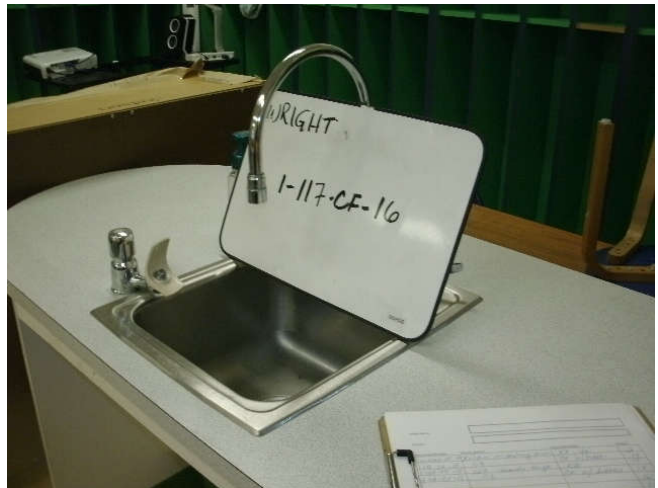


Photo 16: Classroom faucet w/bubbler, located on the 1<sup>st</sup> floor, in room 117.

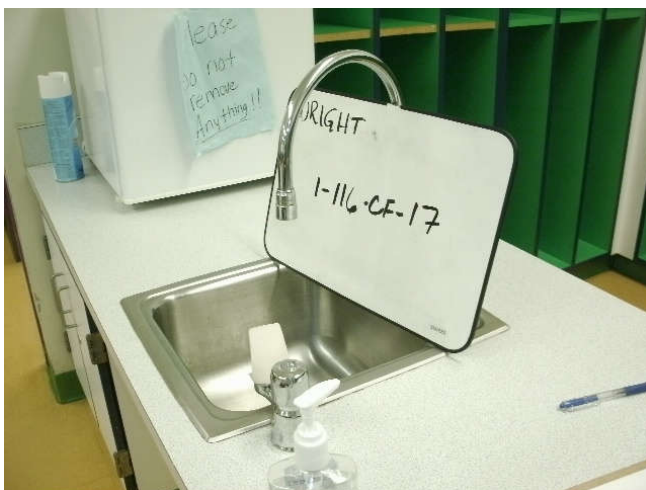


Photo 17: Classroom faucet w/bubbler, located on the 1<sup>st</sup> floor, in room 116.



Photo 18: Kitchen faucet, located in a 1<sup>st</sup> floor hall in the main office area, across from room 100E.

FIXTURE INVENTORY PHOTOLOG  
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Detroit, Michigan



Photo 19: Kitchen faucet, located on the 1st floor, in room 100I, in the main office area.



Photo 20: Kitchen faucet, located on the 1st floor, in room 100L, in the main office area.



Photo 21: Drinking water fountain, located in a 1st floor hallway, to the right of room 105 – left fixture.



Photo 22: Drinking water fountain, located in a 1st floor hallway, to the right of room 105 – right fixture.

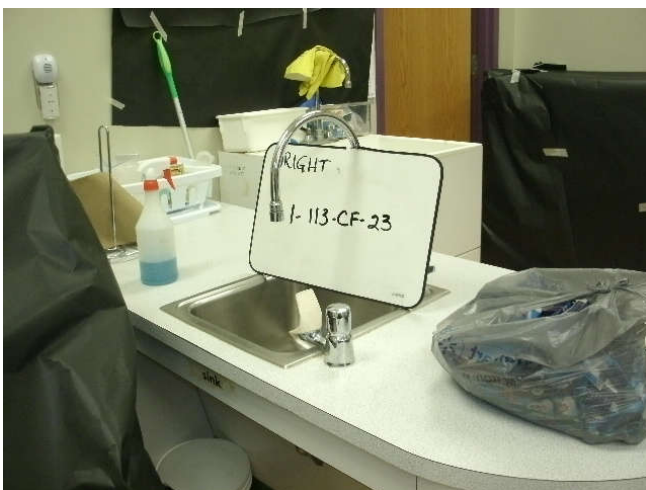


Photo 23: Classroom faucet w/bubbler, located on the 1st floor, in room 113.



Photo 24: Classroom faucet, located on the 1st floor, in room 113.

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Detroit, Michigan

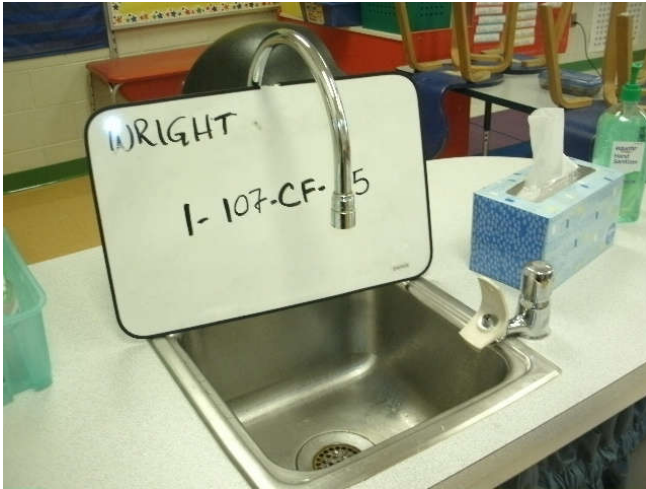


Photo 25: Classroom faucet w/bubbler, located on the 1st floor, in room 107.



Photo 26: Classroom faucet, located on the 1st floor, in room 107.



Photo 27: Classroom faucet w/bubbler, located on the 1st floor, in room 108.



Photo 28: Classroom faucet, located on the 1st floor, in room 108.

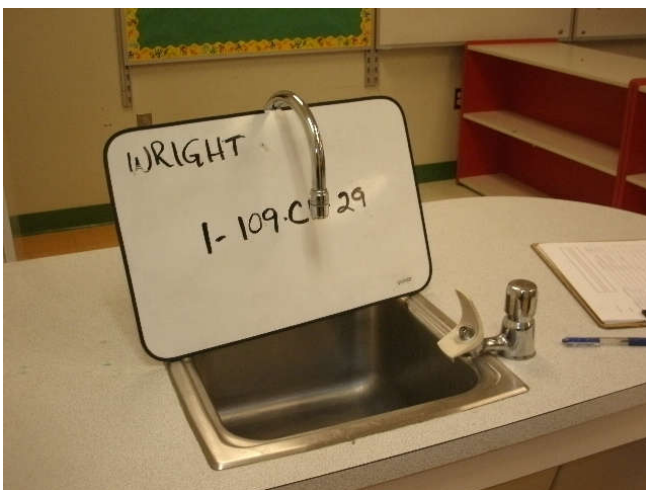


Photo 29: Classroom faucet w/bubbler, located on the 1st floor, in room 109.



Photo 30: Classroom faucet, located on the 1st floor, in room 109.

FIXTURE INVENTORY PHOTOLOG  
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Detroit, Michigan

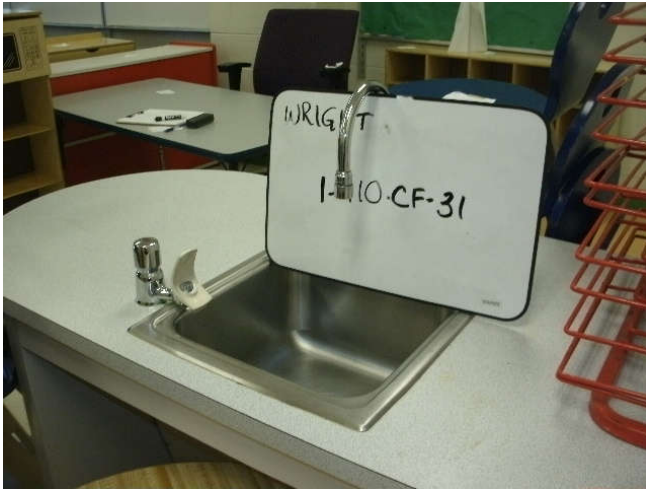


Photo 31: Classroom faucet w/bubbler, located on the 1st floor, in room 110.



Photo 32: Classroom faucet, located on the 1st floor, in room 110.

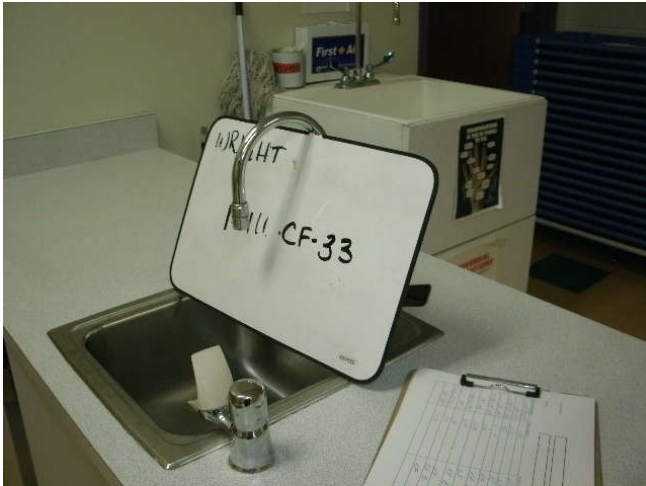


Photo 33: Classroom faucet w/bubbler, located on the 1st floor, in room 111.



Photo 34: Classroom faucet, located on the 1st floor, in room 111.

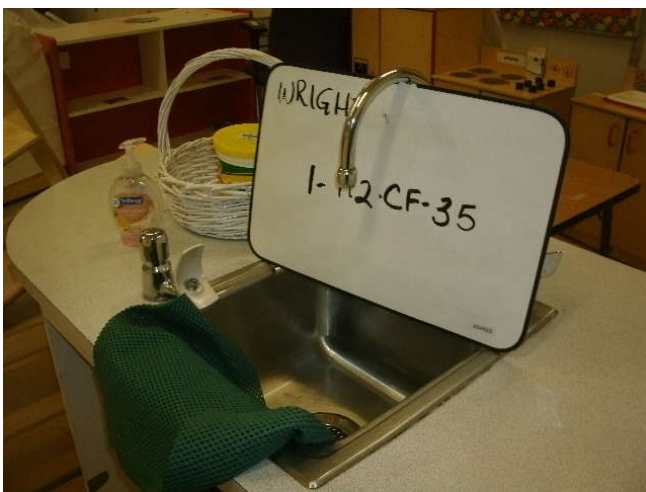


Photo 35: Classroom faucet w/bubbler, located on the 1st floor, in room 112.



Photo 36: Classroom faucet, located on the 1st floor, in room 112.

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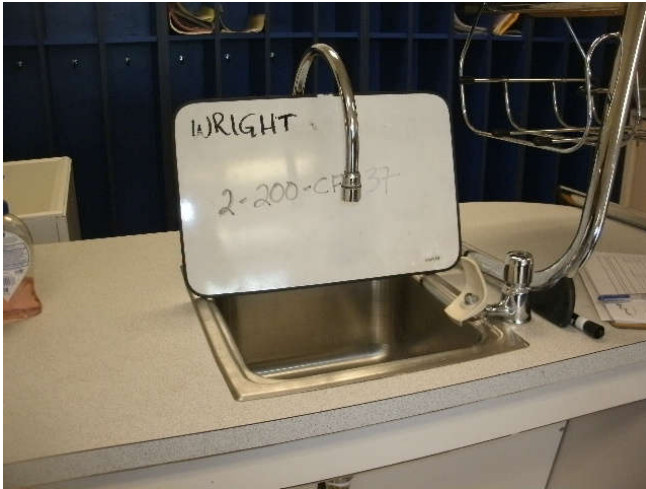


Photo 37: Classroom faucet w/bubbler, located on the 2nd floor, in room 200.



Photo 38: Drinking water fountain, located in a 2nd floor hallway, across from room 200 - left fixture.



Photo 39: Drinking water fountain, located in a 2nd floor hallway, across from room 200 - right fixture.

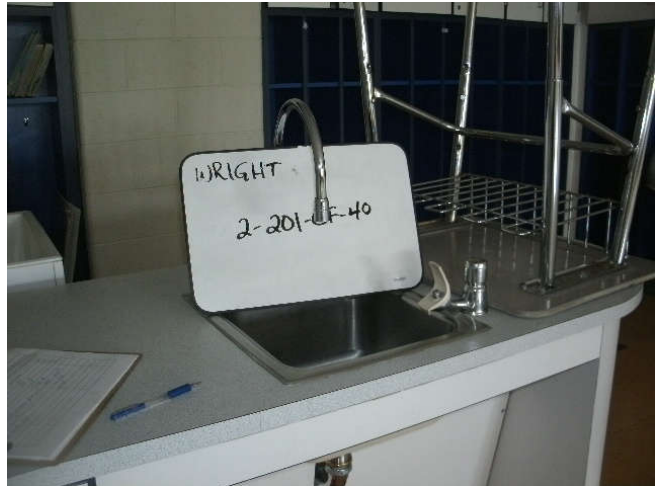


Photo 40: Classroom faucet w/bubbler, located on the 2nd floor, in room 201.

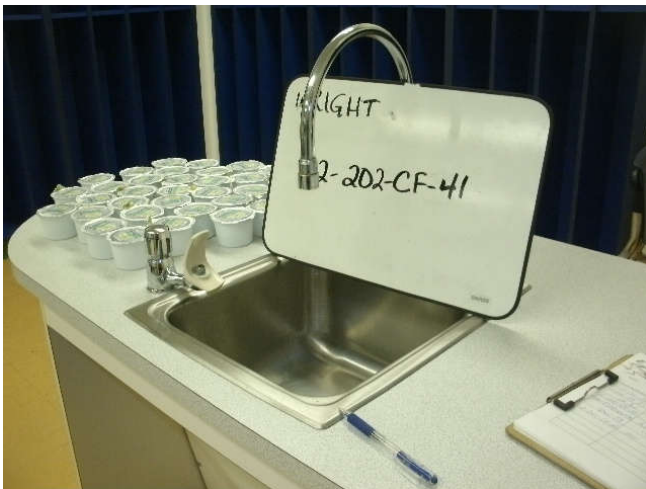


Photo 41: Classroom faucet w/bubbler, located on the 2nd floor, in room 202.

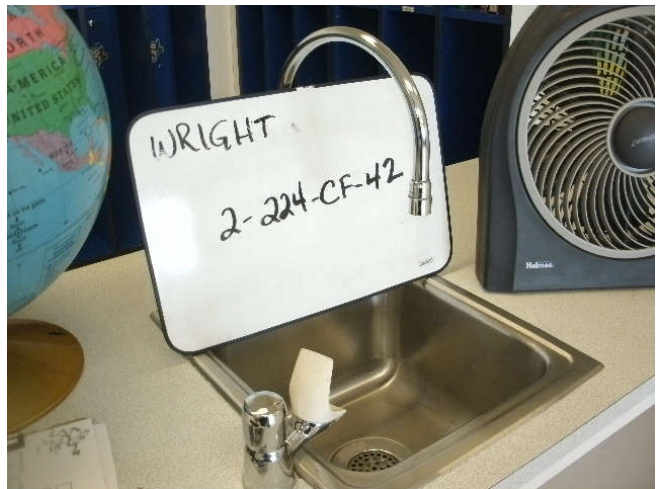


Photo 42: Classroom faucet w/bubbler, located on the 2nd floor, in room 224.

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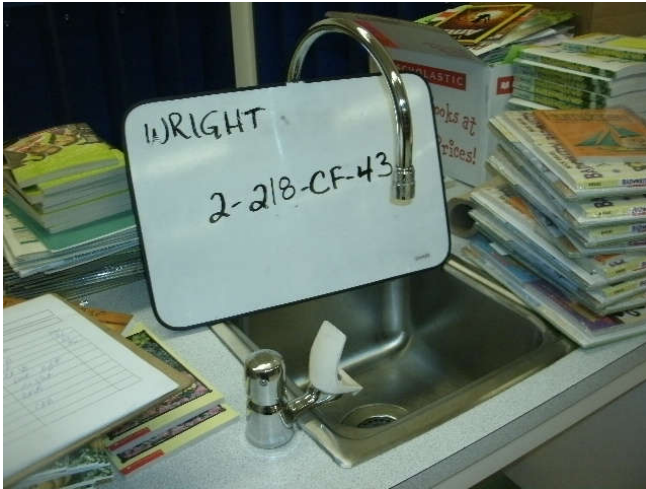


Photo 43: Classroom faucet w/bubbler, located on the 2nd floor, in room 218.



Photo 44: Classroom faucet w/bubbler, located on the 2nd floor, in room 223.



Photo 45: Classroom faucet w/bubbler, located on the 2nd floor, in room 222.

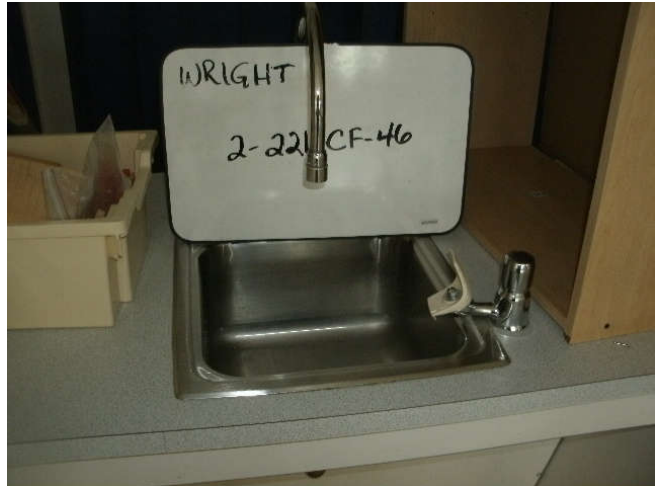


Photo 46: Classroom faucet w/bubbler, located on the 2nd floor, in room 221.

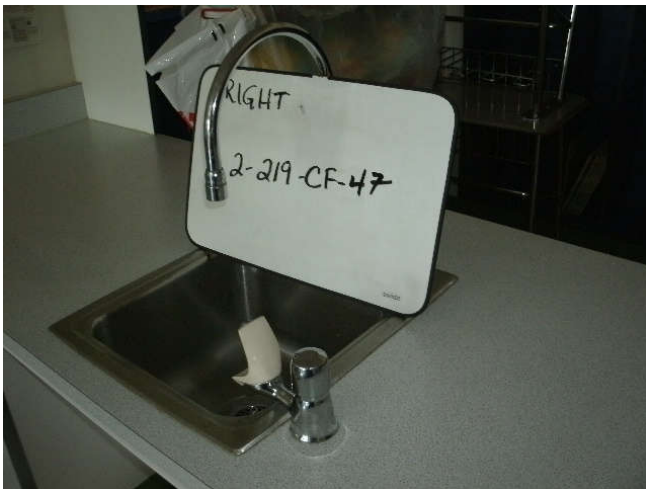


Photo 47: Classroom faucet w/bubbler, located on the 2nd floor, in room 219.

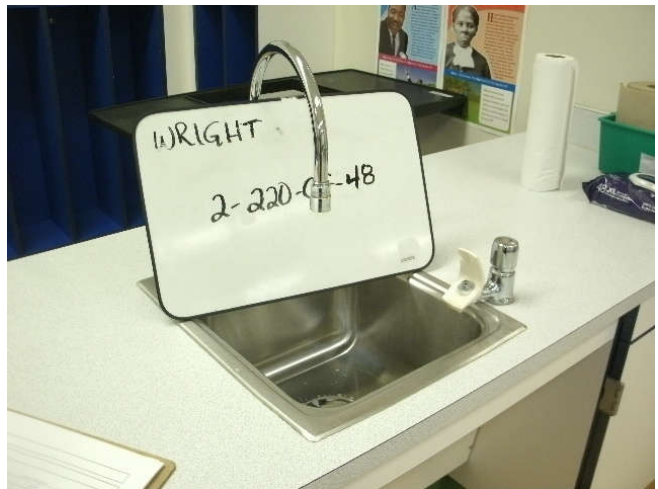


Photo 48: Classroom faucet w/bubbler, located on the 2nd floor, in room 220.

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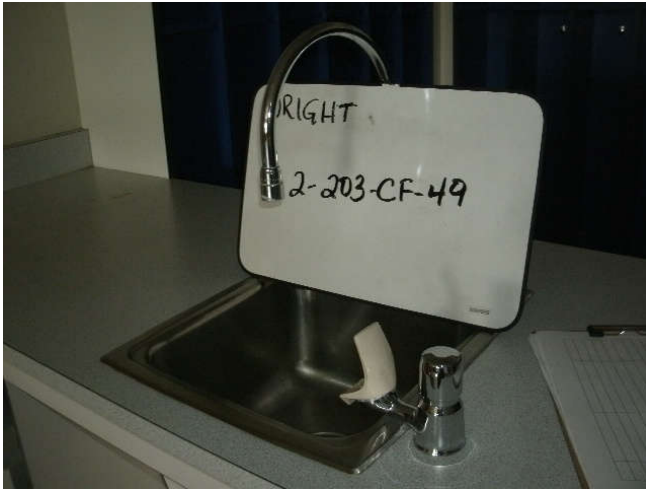


Photo 49: Classroom faucet w/bubbler, located on the 2nd floor, in room 203.

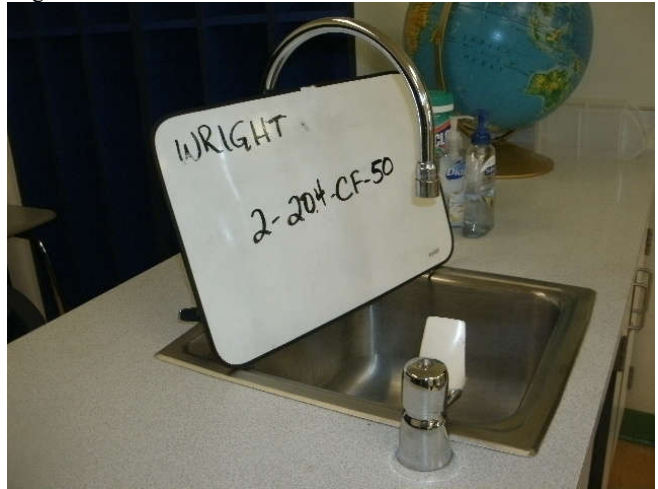


Photo 50: Classroom faucet w/bubbler, located on the 2nd floor, in room 204.

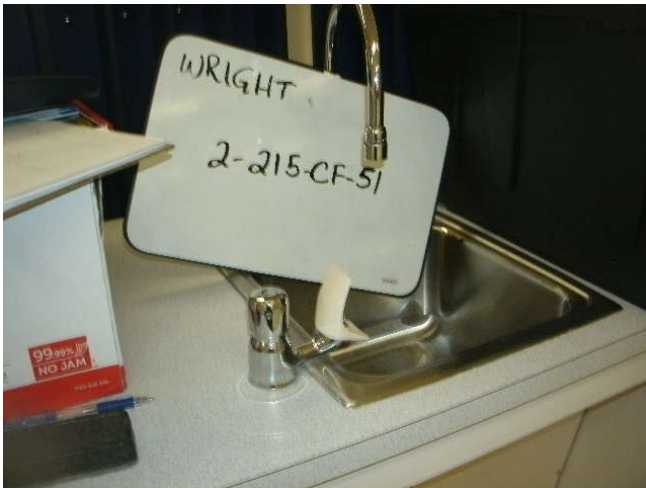


Photo 51: Classroom faucet w/bubbler, located on the 2nd floor, in room 215.

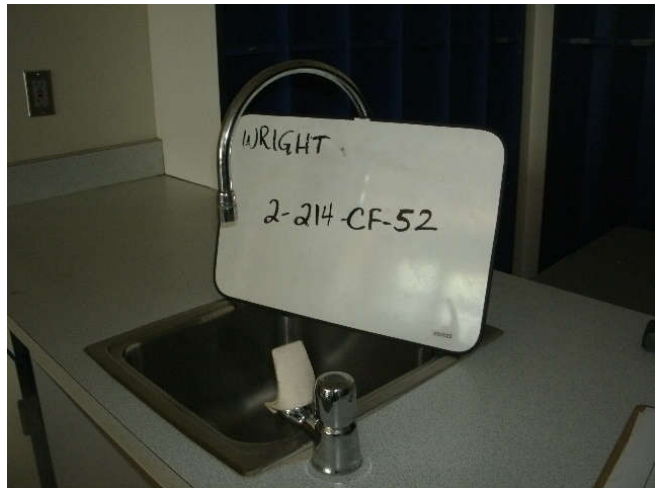


Photo 52: Classroom faucet w/bubbler, located on the 2nd floor, in room 214.

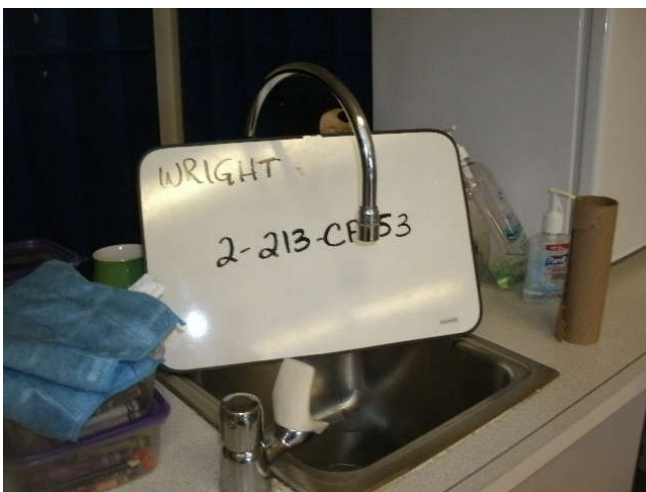


Photo 53: Classroom faucet w/bubbler, located on the 2nd floor, in room 213.

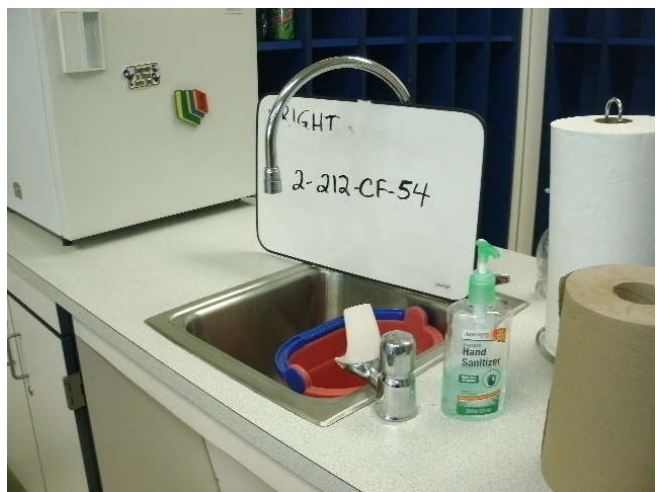


Photo 54: Classroom faucet w/bubbler, located on the 2nd floor, in room 212.

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Detroit, Michigan

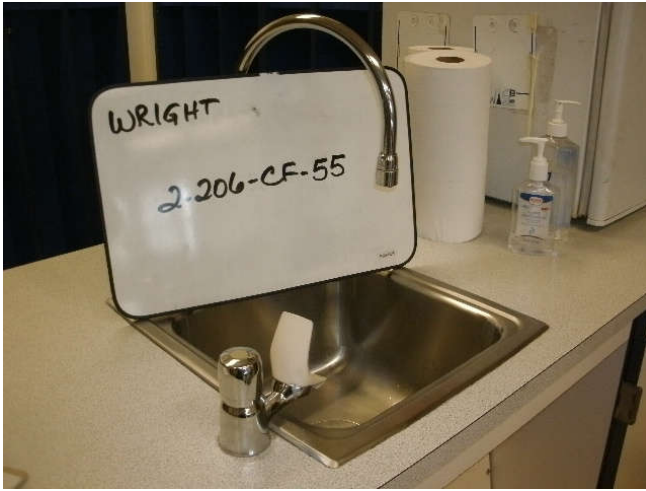


Photo 55: Classroom faucet w/bubbler, located on the 2nd floor, in room 206.

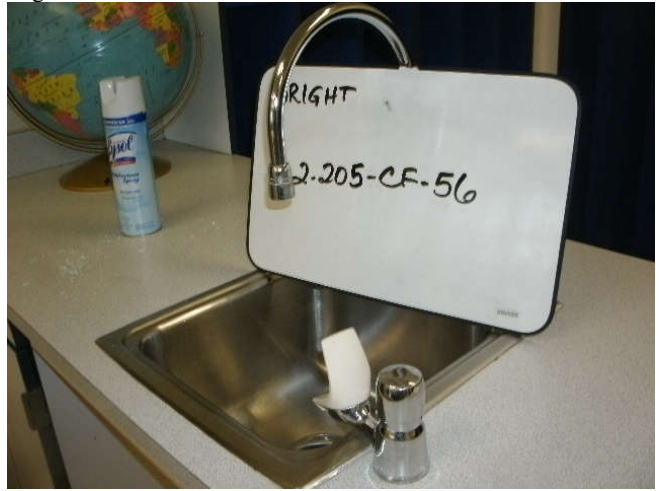


Photo 56: Classroom faucet w/bubbler, located on the 2nd floor, in room 205.

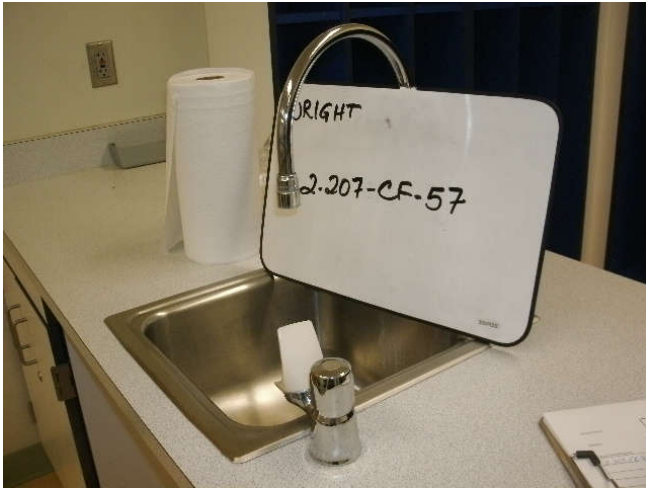


Photo 57: Classroom faucet w/bubbler, located on the 2nd floor, in room 207.

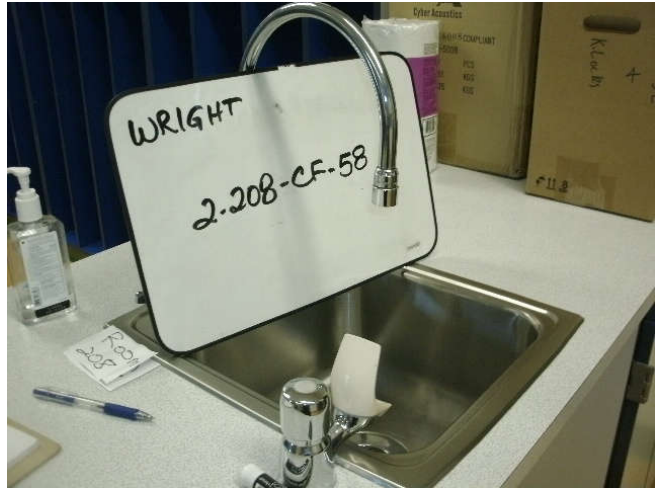


Photo 58: Classroom faucet w/bubbler, located on the 2nd floor, in room 208.



Photo 59: Classroom faucet w/bubbler, located on the 2nd floor, in room 211.



Photo 60: Drinking water fountain, located in a 2nd floor hallway, near room 209 - left fixture.



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Wright, Charles Lower Academy  
Detroit, Michigan



Photo 61: Drinking water fountain, located in a 2nd floor hallway, near room 209 - right fixture.

August 30, 2018

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

RE: Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 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: Wright, Charles Lower Academy

Pace Project No.: 4616520

---

### 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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616520001	1-Gym-DWF-1	Drinking Water	08/16/18 09:16	08/17/18 18:00
4616520002	1-Gym-DWF-2	Drinking Water	08/16/18 09:17	08/17/18 18:00
4616520003	1-Hall@122-DWF-3	Drinking Water	08/16/18 09:20	08/17/18 18:00
4616520004	1-Hall@122-DWF-4	Drinking Water	08/16/18 09:21	08/17/18 18:00
4616520005	1-Hall@122-DWF-5	Drinking Water	08/16/18 09:22	08/17/18 18:00
4616520006	1-Kitchen-KF-6	Drinking Water	08/16/18 09:27	08/17/18 18:00
4616520007	1-Kitchen-KF-7	Drinking Water	08/16/18 09:28	08/17/18 18:00
4616520008	1-Kitchen-KF-8	Drinking Water	08/16/18 09:29	08/17/18 18:00
4616520009	1-Kitchen-KF-10	Drinking Water	08/16/18 09:30	08/17/18 18:00
4616520010	1-119-CF-13	Drinking Water	08/16/18 09:33	08/17/18 18:00
4616520011	1-127-KF-14	Drinking Water	08/16/18 09:35	08/17/18 18:00
4616520012	1-116-CF-17	Drinking Water	08/16/18 09:42	08/17/18 18:00
4616520013	1-Hall@100E-KF-18	Drinking Water	08/16/18 09:44	08/17/18 18:00
4616520014	1-100I-KF-19	Drinking Water	08/16/18 09:46	08/17/18 18:00
4616520015	1-100L-KF-20	Drinking Water	08/16/18 09:50	08/17/18 18:00
4616520016	1-Hall@105-DWF-21	Drinking Water	08/16/18 09:52	08/17/18 18:00
4616520017	1-Hall@105-DWF-22	Drinking Water	08/16/18 09:54	08/17/18 18:00
4616520018	1-113-CF-23	Drinking Water	08/16/18 09:59	08/17/18 18:00
4616520019	1-108-CF-27	Drinking Water	08/16/18 10:04	08/17/18 18:00
4616520020	1-109-CF-29	Drinking Water	08/16/18 10:06	08/17/18 18:00
4616520021	1-110-CF-31	Drinking Water	08/16/18 10:08	08/17/18 18:00
4616520022	1-112-CF-35	Drinking Water	08/16/18 10:11	08/17/18 18:00
4616520023	2-200-CF-37	Drinking Water	08/16/18 10:14	08/17/18 18:00
4616520024	2-Hall@200-DWF-38	Drinking Water	08/16/18 10:17	08/17/18 18:00
4616520025	2-Hall@200-DWF-39	Drinking Water	08/16/18 10:21	08/17/18 18:00
4616520026	2-201-CF-40	Drinking Water	08/16/18 10:23	08/17/18 18:00
4616520027	2-202-CF-41	Drinking Water	08/16/18 10:24	08/17/18 18:00
4616520028	2-224-CF-42	Drinking Water	08/16/18 10:26	08/17/18 18:00
4616520029	2-218-CF-43	Drinking Water	08/16/18 10:28	08/17/18 18:00
4616520030	2-223-CF-44	Drinking Water	08/16/18 10:30	08/17/18 18:00
4616520031	2-222-CF-45	Drinking Water	08/16/18 10:31	08/17/18 18:00
4616520032	2-221-CF-46	Drinking Water	08/16/18 10:33	08/17/18 18:00
4616520033	2-219-CF-47	Drinking Water	08/16/18 10:35	08/17/18 18:00
4616520034	2-220-CF-48	Drinking Water	08/16/18 10:40	08/17/18 18:00
4616520035	2-203-CF-49	Drinking Water	08/16/18 10:41	08/17/18 18:00
4616520036	2-204-CF-50	Drinking Water	08/16/18 10:44	08/17/18 18:00
4616520037	2-215-CF-51	Drinking Water	08/16/18 10:47	08/17/18 18:00

### REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4616520038	2-213-CF-53	Drinking Water	08/16/18 10:51	08/17/18 18:00
4616520039	2-205-CF-56	Drinking Water	08/16/18 10:57	08/17/18 18:00
4616520040	2-207-CF-57	Drinking Water	08/16/18 10:58	08/17/18 18:00
4616520041	2-208-CF-58	Drinking Water	08/16/18 11:01	08/17/18 18:00
4616520042	2-211-CF-59	Drinking Water	08/16/18 11:03	08/17/18 18:00
4616520043	2-Hall@209-60	Drinking Water	08/16/18 11:05	08/17/18 18:00
4616520044	2-Hall@209-61	Drinking Water	08/16/18 11:07	08/17/18 18:00

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### SAMPLE ANALYTE COUNT

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616520001	1-Gym-DWF-1	EPA 200.8	NHAM	2
4616520002	1-Gym-DWF-2	EPA 200.8	NHAM	2
4616520003	1-Hall@122-DWF-3	EPA 200.8	NHAM	2
4616520004	1-Hall@122-DWF-4	EPA 200.8	NHAM	2
4616520005	1-Hall@122-DWF-5	EPA 200.8	NHAM	2
4616520006	1-Kitchen-KF-6	EPA 200.8	NHAM	2
4616520007	1-Kitchen-KF-7	EPA 200.8	NHAM	2
4616520008	1-Kitchen-KF-8	EPA 200.8	NHAM	2
4616520009	1-Kitchen-KF-10	EPA 200.8	NHAM	2
4616520010	1-119-CF-13	EPA 200.8	NHAM	2
4616520011	1-127-KF-14	EPA 200.8	NHAM	2
4616520012	1-116-CF-17	EPA 200.8	NHAM	2
4616520013	1-Hall@100E-KF-18	EPA 200.8	NHAM	2
4616520014	1-100I-KF-19	EPA 200.8	NHAM	2
4616520015	1-100L-KF-20	EPA 200.8	NHAM	2
4616520016	1-Hall@105-DWF-21	EPA 200.8	NHAM	2
4616520017	1-Hall@105-DWF-22	EPA 200.8	NHAM	2
4616520018	1-113-CF-23	EPA 200.8	NHAM	2
4616520019	1-108-CF-27	EPA 200.8	NHAM	2
4616520020	1-109-CF-29	EPA 200.8	NHAM	2
4616520021	1-110-CF-31	EPA 200.8	NHAM	2
4616520022	1-112-CF-35	EPA 200.8	NHAM	2
4616520023	2-200-CF-37	EPA 200.8	NHAM	2
4616520024	2-Hall@200-DWF-38	EPA 200.8	NHAM	2
4616520025	2-Hall@200-DWF-39	EPA 200.8	NHAM	2
4616520026	2-201-CF-40	EPA 200.8	NHAM	2
4616520027	2-202-CF-41	EPA 200.8	NHAM	2
4616520028	2-224-CF-42	EPA 200.8	NHAM	2
4616520029	2-218-CF-43	EPA 200.8	NHAM	2
4616520030	2-223-CF-44	EPA 200.8	NHAM	2
4616520031	2-222-CF-45	EPA 200.8	NHAM	2
4616520032	2-221-CF-46	EPA 200.8	NHAM	2
4616520033	2-219-CF-47	EPA 200.8	NHAM	2
4616520034	2-220-CF-48	EPA 200.8	NHAM	2
4616520035	2-203-CF-49	EPA 200.8	NHAM	2
4616520036	2-204-CF-50	EPA 200.8	NHAM	2
4616520037	2-215-CF-51	EPA 200.8	NHAM	2

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### SAMPLE ANALYTE COUNT

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4616520038	2-213-CF-53	EPA 200.8	NHAM	2
4616520039	2-205-CF-56	EPA 200.8	NHAM	2
4616520040	2-207-CF-57	EPA 200.8	NHAM	2
4616520041	2-208-CF-58	EPA 200.8	NHAM	2
4616520042	2-211-CF-59	EPA 200.8	NHAM	2
4616520043	2-Hall@209-60	EPA 200.8	NHAM	2
4616520044	2-Hall@209-61	EPA 200.8	NHAM	2

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-Gym-DWF-1**      **Lab ID: 4616520001**      Collected: 08/16/18 09:16      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>259</b>	ug/L	1.0	1300	1		08/29/18 10:34	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:34	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-Gym-DWF-2**      **Lab ID: 4616520002**      Collected: 08/16/18 09:17      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>185</b>	ug/L	1.0	1300	1		08/29/18 10:38	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:38	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 1-Hall@122-DWF-3      Lab ID: 4616520003      Collected: 08/16/18 09:20      Received: 08/17/18 18:00      Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b> Analytical Method: EPA 200.8									
Copper	<b>524</b>	ug/L	5.0	1300	5		08/29/18 13:16	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:39	7439-92-1	

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-Hall@122-DWF-4**      **Lab ID: 4616520004**      Collected: 08/16/18 09:21      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>170</b>	ug/L	1.0	1300	1		08/29/18 10:40	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:40	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-Hall@122-DWF-5**      **Lab ID: 4616520005**      Collected: 08/16/18 09:22      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>67.9</b>	ug/L	1.0	1300	1		08/29/18 10:41	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:41	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 1-Kitchen-KF-6		Lab ID: 4616520006		Collected: 08/16/18 09:27		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>243</b>	ug/L	1.0	1300	1		08/29/18 10:42	7440-50-8	
Lead	<b>2.3</b>	ug/L	1.0	15	1		08/29/18 10:42	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 1-Kitchen-KF-7</b>									
<b>Lab ID: 4616520007</b>									
Collected: 08/16/18 09:28									
Received: 08/17/18 18:00									
Matrix: Drinking Water									
<b>200.8 MET ICPMS Drinking Water</b>									
Analytical Method: EPA 200.8									
Copper	<b>453</b>	ug/L	5.0	1300	5		08/29/18 13:17	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:43	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-Kitchen-KF-8**      **Lab ID: 4616520008**      Collected: 08/16/18 09:29      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>496</b>	ug/L	5.0	1300	5		08/29/18 13:18	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:46	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-Kitchen-KF-10**      **Lab ID: 4616520009**      Collected: 08/16/18 09:30      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>248</b>	ug/L	1.0	1300	1		08/29/18 10:53	7440-50-8	
Lead	<b>8.0</b>	ug/L	1.0	15	1		08/29/18 10:53	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-119-CF-13**      **Lab ID: 4616520010**      Collected: 08/16/18 09:33      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>430</b>	ug/L	5.0	1300	5		08/29/18 13:22	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 10:54	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-127-KF-14**      **Lab ID: 4616520011**      Collected: 08/16/18 09:35      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 ICPMS Metals, Total</b>		Analytical Method: EPA 200.8      Preparation Method: EPA 200.8							
Copper	<b>618</b>	ug/L	10.0	1300	10	08/21/18 07:02	08/29/18 13:43	7440-50-8	
Lead	<b>35.0</b>	ug/L	1.0	15	1	08/21/18 07:02	08/29/18 11:23	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-116-CF-17**      **Lab ID: 4616520012**      Collected: 08/16/18 09:42      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>352</b>	ug/L	5.0	1300	5		08/29/18 13:26	7440-50-8	
Lead	<b>1.2</b>	ug/L	1.0	15	1		08/29/18 10:55	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-Hall@100E-KF-18**      **Lab ID: 4616520013**      Collected: 08/16/18 09:44      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>276</b>	ug/L	1.0	1300	1		08/29/18 10:56	7440-50-8	
Lead	<b>1.9</b>	ug/L	1.0	15	1		08/29/18 10:56	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 1-100I-KF-19</b>									
<b>Lab ID: 4616520014</b>									
Collected: 08/16/18 09:46									
Received: 08/17/18 18:00									
Matrix: Drinking Water									
<b>200.8 MET ICPMS Drinking Water</b>									
Analytical Method: EPA 200.8									
Copper	<b>198</b>	ug/L	1.0	1300	1		08/29/18 10:57	7440-50-8	
Lead	<b>3.6</b>	ug/L	1.0	15	1		08/29/18 10:57	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-100L-KF-20**      **Lab ID: 4616520015**      Collected: 08/16/18 09:50      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>279</b>	ug/L	5.0	1300	5		08/29/18 13:27	7440-50-8	
Lead	<b>2.4</b>	ug/L	1.0	15	1		08/29/18 10:59	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 1-Hall@105-DWF-21      Lab ID: 4616520016      Collected: 08/16/18 09:52      Received: 08/17/18 18:00      Matrix: Drinking Water</b>									
<b>200.8 MET ICPMS Drinking Water</b> Analytical Method: EPA 200.8									
Copper	<b>427</b>	ug/L	5.0	1300	5		08/29/18 13:28	7440-50-8	
Lead	<b>1.1</b>	ug/L	1.0	15	1		08/29/18 11:00	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-Hall@105-DWF-22**      **Lab ID: 4616520017**      Collected: 08/16/18 09:54      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>423</b>	ug/L	5.0	1300	5		08/29/18 13:29	7440-50-8	
Lead	<b>1.3</b>	ug/L	1.0	15	1		08/29/18 11:01	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 1-113-CF-23</b>									
<b>Lab ID: 4616520018</b>									
Collected: 08/16/18 09:59									
Received: 08/17/18 18:00									
Matrix: Drinking Water									
<b>200.8 MET ICPMS Drinking Water</b>									
Analytical Method: EPA 200.8									
Copper	<b>937</b>	ug/L	50.0	1300	50		08/29/18 13:30	7440-50-8	
Lead	<b>8.2</b>	ug/L	1.0	15	1		08/29/18 11:05	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 1-108-CF-27		Lab ID: 4616520019		Collected: 08/16/18 10:04	Received: 08/17/18 18:00	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8								
Copper	<b>301</b>	ug/L	5.0	1300	5		08/29/18 13:31	7440-50-8		
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:06	7439-92-1		

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 1-109-CF-29**      **Lab ID: 4616520020**      Collected: 08/16/18 10:06      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>506</b>	ug/L	5.0	1300	5		08/29/18 13:35	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:10	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-110-CF-31**      **Lab ID: 4616520021**      Collected: 08/16/18 10:08      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>466</b>	ug/L	5.0	1300	5		08/29/18 13:40	7440-50-8	
Lead	<b>3.0</b>	ug/L	1.0	15	1		08/29/18 11:11	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 1-112-CF-35**      **Lab ID: 4616520022**      Collected: 08/16/18 10:11      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>359</b>	ug/L	5.0	1300	5		08/29/18 13:41	7440-50-8	
Lead	<b>1.8</b>	ug/L	1.0	15	1		08/29/18 11:12	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-200-CF-37**      **Lab ID: 4616520023**      Collected: 08/16/18 10:14      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>300</b>	ug/L	1.0	1300	1		08/29/18 11:13	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:13	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-Hall@200-DWF-38**      **Lab ID: 4616520024**      Collected: 08/16/18 10:17      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>316</b>	ug/L	5.0	1300	5		08/29/18 13:42	7440-50-8	
Lead	<b>1.2</b>	ug/L	1.0	15	1		08/29/18 11:14	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-Hall@200-DWF-39      Lab ID: 4616520025      Collected: 08/16/18 10:21      Received: 08/17/18 18:00      Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b> Analytical Method: EPA 200.8									
Copper	<b>297</b>	ug/L	1.0	1300	1		08/29/18 11:18	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:18	7439-92-1	

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 2-201-CF-40**      **Lab ID: 4616520026**      Collected: 08/16/18 10:23      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>237</b>	ug/L	1.0	1300	1		08/29/18 11:19	7440-50-8	
Lead	<b>1.6</b>	ug/L	1.0	15	1		08/29/18 11:19	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-202-CF-41**      **Lab ID: 4616520027**      Collected: 08/16/18 10:24      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>262</b>	ug/L	1.0	1300	1		08/29/18 11:20	7440-50-8	
Lead	<b>1.7</b>	ug/L	1.0	15	1		08/29/18 11:20	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-224-CF-42**      **Lab ID: 4616520028**      Collected: 08/16/18 10:26      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>296</b>	ug/L	5.0	1300	5		08/29/18 13:46	7440-50-8	
Lead	<b>2.5</b>	ug/L	1.0	15	1		08/29/18 11:31	7439-92-1	

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 2-218-CF-43**      **Lab ID: 4616520029**      Collected: 08/16/18 10:28      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>272</b>	ug/L	1.0	1300	1		08/29/18 11:35	7440-50-8	
Lead	<b>3.8</b>	ug/L	1.0	15	1		08/29/18 11:35	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-223-CF-44		Lab ID: 4616520030		Collected: 08/16/18 10:30		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>286</b>	ug/L	1.0	1300	1		08/29/18 11:36	7440-50-8	
Lead	<b>1.2</b>	ug/L	1.0	15	1		08/29/18 11:36	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-222-CF-45		Lab ID: 4616520031		Collected: 08/16/18 10:31		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>350</b>	ug/L	5.0	1300	5		08/29/18 13:59	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:37	7439-92-1	

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 2-221-CF-46**      **Lab ID: 4616520032**      Collected: 08/16/18 10:33      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>287</b>	ug/L	5.0	1300	5		08/29/18 14:00	7440-50-8	
Lead	<b>1.2</b>	ug/L	1.0	15	1		08/29/18 11:38	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-219-CF-47		Lab ID: 4616520033		Collected: 08/16/18 10:35		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>280</b>	ug/L	5.0	1300	5		08/29/18 14:01	7440-50-8	
Lead	<b>1.7</b>	ug/L	1.0	15	1		08/29/18 11:39	7439-92-1	

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### ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

**Sample: 2-220-CF-48**      **Lab ID: 4616520034**      Collected: 08/16/18 10:40      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>279</b>	ug/L	5.0	1300	5		08/29/18 14:02	7440-50-8	
Lead	<b>2.1</b>	ug/L	1.0	15	1		08/29/18 11:40	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-203-CF-49**      **Lab ID: 4616520035**      Collected: 08/16/18 10:41      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>294</b>	ug/L	5.0	1300	5		08/29/18 14:03	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:44	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-204-CF-50		Lab ID: 4616520036		Collected: 08/16/18 10:44		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>422</b>	ug/L	5.0	1300	5		08/29/18 14:04	7440-50-8	
Lead	<b>3.5</b>	ug/L	1.0	15	1		08/29/18 11:45	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-215-CF-51**      **Lab ID: 4616520037**      Collected: 08/16/18 10:47      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>289</b>	ug/L	5.0	1300	5		08/29/18 14:05	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:46	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-213-CF-53**      **Lab ID: 4616520038**      Collected: 08/16/18 10:51      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>320</b>	ug/L	5.0	1300	5		08/29/18 14:06	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:47	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-205-CF-56**      **Lab ID: 4616520039**      Collected: 08/16/18 10:57      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>316</b>	ug/L	5.0	1300	5		08/29/18 14:13	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:51	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-207-CF-57**      **Lab ID: 4616520040**      Collected: 08/16/18 10:58      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>313</b>	ug/L	5.0	1300	5		08/29/18 14:14	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:52	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 2-208-CF-58</b>									
<b>Lab ID: 4616520041</b>									
Collected: 08/16/18 11:01									
Received: 08/17/18 18:00									
Matrix: Drinking Water									
<b>200.8 MET ICPMS Drinking Water</b>									
Analytical Method: EPA 200.8									
Copper	<b>375</b>	ug/L	5.0	1300	5		08/29/18 14:15	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:53	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-211-CF-59**      **Lab ID: 4616520042**      Collected: 08/16/18 11:03      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>366</b>	ug/L	5.0	1300	5		08/29/18 14:16	7440-50-8	
Lead	<b>2.0</b>	ug/L	1.0	15	1		08/29/18 11:57	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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**Sample: 2-Hall@209-60**      **Lab ID: 4616520043**      Collected: 08/16/18 11:05      Received: 08/17/18 18:00      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>267</b>	ug/L	1.0	1300	1		08/29/18 11:58	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:58	7439-92-1	

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## ANALYTICAL RESULTS

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Sample: 2-Hall@209-61		Lab ID: 4616520044		Collected: 08/16/18 11:07		Received: 08/17/18 18:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>199</b>	ug/L	1.0	1300	1		08/29/18 11:59	7440-50-8	
Lead	<b>&lt;1.0</b>	ug/L	1.0	15	1		08/29/18 11:59	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

QC Batch: 31963 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 4616520001, 4616520002, 4616520003, 4616520004, 4616520005, 4616520006, 4616520007

METHOD BLANK: 128972 Matrix: Water  
Associated Lab Samples: 4616520001, 4616520002, 4616520003, 4616520004, 4616520005, 4616520006, 4616520007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/29/18 10:07	
Lead	ug/L	<1.0	1.0	08/29/18 10:07	

LABORATORY CONTROL SAMPLE: 128973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.0	100	85-115	
Lead	ug/L	20	20.4	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128974 128975

Parameter	Units	4616519021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	447	100	100	538	526	92	79	70-130	2	20	
Lead	ug/L	<1.0	20	20	21.2	21.2	104	104	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128977 128978

Parameter	Units	4616519031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	204	100	100	305	297	102	93	70-130	3	20	
Lead	ug/L	<1.0	20	20	21.0	21.3	105	106	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: Wright, Charles Lower Academy  
Pace Project No.: 4616520

QC Batch: 31964 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 4616520008, 4616520009, 4616520010, 4616520012, 4616520013, 4616520014, 4616520015, 4616520016, 4616520017, 4616520018, 4616520019, 4616520020, 4616520021, 4616520022, 4616520023, 4616520024, 4616520025, 4616520026, 4616520027

METHOD BLANK: 128980 Matrix: Water  
Associated Lab Samples: 4616520008, 4616520009, 4616520010, 4616520012, 4616520013, 4616520014, 4616520015, 4616520016, 4616520017, 4616520018, 4616520019, 4616520020, 4616520021, 4616520022, 4616520023, 4616520024, 4616520025, 4616520026, 4616520027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/29/18 10:44	
Lead	ug/L	<1.0	1.0	08/29/18 10:44	

LABORATORY CONTROL SAMPLE: 128981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	19.9	100	85-115	
Lead	ug/L	20	20.6	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128982 128983

Parameter	Units	4616520008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Copper	ug/L	496	100	586	574	90	78	70-130	2	20		
Lead	ug/L	<1.0	20	21.6	21.5	106	105	70-130	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128985 128986

Parameter	Units	4616520019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Copper	ug/L	301	100	398	406	97	104	70-130	2	20		
Lead	ug/L	<1.0	20	21.5	21.3	106	105	70-130	1	20		

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

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### QUALITY CONTROL DATA

Project: Wright, Charles Lower Academy  
Pace Project No.: 4616520

QC Batch: 31966 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 4616520028, 4616520029, 4616520030, 4616520031, 4616520032, 4616520033, 4616520034, 4616520035, 4616520036, 4616520037, 4616520038, 4616520039, 4616520040, 4616520041, 4616520042, 4616520043, 4616520044

METHOD BLANK: 128990 Matrix: Water  
Associated Lab Samples: 4616520028, 4616520029, 4616520030, 4616520031, 4616520032, 4616520033, 4616520034, 4616520035, 4616520036, 4616520037, 4616520038, 4616520039, 4616520040, 4616520041, 4616520042, 4616520043, 4616520044

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/29/18 11:26	
Lead	ug/L	<1.0	1.0	08/29/18 11:26	

LABORATORY CONTROL SAMPLE: 128991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.6	103	85-115	
Lead	ug/L	20	21.7	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128992 128993

Parameter	Units	4616520028 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Copper	ug/L	296	100	386	379	91	83	70-130	2	20		
Lead	ug/L	2.5	20	23.6	24.0	106	108	70-130	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 128995 128996

Parameter	Units	4616520038 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Copper	ug/L	320	100	414	411	94	91	70-130	1	20		
Lead	ug/L	<1.0	20	21.2	21.1	104	104	70-130	1	20		

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

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### QUALITY CONTROL DATA

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

QC Batch: 31172 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET

Associated Lab Samples: 4616520011

METHOD BLANK: 125641 Matrix: Water

Associated Lab Samples: 4616520011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	08/29/18 11:21	
Lead	ug/L	<1.0	1.0	08/29/18 11:21	

LABORATORY CONTROL SAMPLE: 125642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	49.9	100	85-115	
Lead	ug/L	50	51.9	104	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.

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## QUALIFIERS

Project: Wright, Charles Lower Academy

Pace Project No.: 4616520

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### 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: Wright, Charles Lower Academy  
Pace Project No.: 4616520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4616520001	1-Gym-DWF-1	EPA 200.8	31963		
4616520002	1-Gym-DWF-2	EPA 200.8	31963		
4616520003	1-Hall@122-DWF-3	EPA 200.8	31963		
4616520004	1-Hall@122-DWF-4	EPA 200.8	31963		
4616520005	1-Hall@122-DWF-5	EPA 200.8	31963		
4616520006	1-Kitchen-KF-6	EPA 200.8	31963		
4616520007	1-Kitchen-KF-7	EPA 200.8	31963		
4616520008	1-Kitchen-KF-8	EPA 200.8	31964		
4616520009	1-Kitchen-KF-10	EPA 200.8	31964		
4616520010	1-119-CF-13	EPA 200.8	31964		
4616520012	1-116-CF-17	EPA 200.8	31964		
4616520013	1-Hall@100E-KF-18	EPA 200.8	31964		
4616520014	1-100I-KF-19	EPA 200.8	31964		
4616520015	1-100L-KF-20	EPA 200.8	31964		
4616520016	1-Hall@105-DWF-21	EPA 200.8	31964		
4616520017	1-Hall@105-DWF-22	EPA 200.8	31964		
4616520018	1-113-CF-23	EPA 200.8	31964		
4616520019	1-108-CF-27	EPA 200.8	31964		
4616520020	1-109-CF-29	EPA 200.8	31964		
4616520021	1-110-CF-31	EPA 200.8	31964		
4616520022	1-112-CF-35	EPA 200.8	31964		
4616520023	2-200-CF-37	EPA 200.8	31964		
4616520024	2-Hall@200-DWF-38	EPA 200.8	31964		
4616520025	2-Hall@200-DWF-39	EPA 200.8	31964		
4616520026	2-201-CF-40	EPA 200.8	31964		
4616520027	2-202-CF-41	EPA 200.8	31964		
4616520028	2-224-CF-42	EPA 200.8	31966		
4616520029	2-218-CF-43	EPA 200.8	31966		
4616520030	2-223-CF-44	EPA 200.8	31966		
4616520031	2-222-CF-45	EPA 200.8	31966		
4616520032	2-221-CF-46	EPA 200.8	31966		
4616520033	2-219-CF-47	EPA 200.8	31966		
4616520034	2-220-CF-48	EPA 200.8	31966		
4616520035	2-203-CF-49	EPA 200.8	31966		
4616520036	2-204-CF-50	EPA 200.8	31966		
4616520037	2-215-CF-51	EPA 200.8	31966		
4616520038	2-213-CF-53	EPA 200.8	31966		
4616520039	2-205-CF-56	EPA 200.8	31966		
4616520040	2-207-CF-57	EPA 200.8	31966		
4616520041	2-208-CF-58	EPA 200.8	31966		
4616520042	2-211-CF-59	EPA 200.8	31966		
4616520043	2-Hall@209-60	EPA 200.8	31966		
4616520044	2-Hall@209-61	EPA 200.8	31966		
4616520011	1-127-KF-14	EPA 200.8	31172	EPA 200.8	31965

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# SAMPLE RECEIVING / LOG-IN CHECKLIST



Client: <u>DTC</u>	Work Order #: <u>4616520</u>
Receipt Record Page/Line #: <u>8-33</u>	

Recorded by (initials/date): <u>DX 8-17-18</u>	<input type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received: <u>1</u>	<input type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> IR Gun (#402)	Thermometer Used
--	---	------------------------	--	------------------

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<u>23</u>	<u>2213</u>							
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input 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: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1:		<u>0 24.7</u>	Sample 1:			Sample 1:		
Sample 2:		<u>0 24.3</u>	Sample 2:			Sample 2:		
Sample 3:		<u>0 25.1</u>	Sample 3:			Sample 3:		
When above 6 °C take a 3 Sample Average °C: <u>24.7</u>			When above 6 °C take a 3 Sample Average °C:			When above 6 °C take a 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 \_\_\_\_\_

**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

**COC Information**

Pace COC  Other \_\_\_\_\_

COC ID Numbers: 19854, 19855  
19856, 19858

**Work Order Not Logged In with Short Hold / Rush**

Copies of COC To Lab Areas

**Check COC for Accuracy**

Yes  No

Analysis Requested?

Sample ID matches COC?

Sample Date and Time matches COC?

All containers indicated are received?

**Notes**

**Sample Condition Summary**

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

Yes  No

Were all samples logged into Epic?

Were all samples labelled?

Were samples placed on scan locations?

Initial / Date : RS 8/18/18

# AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: <u>QTC</u>	Work Order #: <u>4616520</u>
Receipt Log #: <u>2-33</u>	Completed By (initials/date): <u>[Signature] 8-17-18</u>

COC ID #: <u>19854</u>						Adjusted by: _____				
						Date: _____				
Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved	
	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <2	
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted
COC Line #1							✓			
COC Line #2							✓			
COC Line #3							✓			
COC Line #4							✓			
COC Line #5							✓			
COC Line #6							✓			
COC Line #7							✓			
COC Line #8							✓			
COC Line #9							✓			
COC Line #10							✓			
COC Line #11							✓			
COC Line #12							✓			

pH Strip  
Reagent or Lot #

**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.

Comments: \_\_\_\_\_

COC ID #: <u>19855</u>						Adjusted by: _____				
						Date: _____				
Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved	
	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <2	
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted
COC Line #1							✓			
COC Line #2							✓			
COC Line #3							✓			
COC Line #4							✓			
COC Line #5							✓			
COC Line #6							✓			
COC Line #7							✓			
COC Line #8							✓			
COC Line #9							✓			
COC Line #10							✓			
COC Line #11							✓			
COC Line #12							✓			

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

Comments: \_\_\_\_\_

# AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: <u>ATC</u>	Work Order #: <u>461820</u>
Receipt Log #: <u>8-33</u>	Completed By (initials/date): <u>JW 8-17-18</u>

COC ID #: <u>19856</u>						Adjusted by: _____ Date: _____						
Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <2			
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted
COC Line #1							✓					
COC Line #2							✓					
COC Line #3							✓					
COC Line #4							✓					
COC Line #5							✓					
COC Line #6							✓					
COC Line #7							✓					
COC Line #8							✓					
COC Line #9							✓					
COC Line #10							✓					
COC Line #11							✓					
COC Line #12							✓					

**pH Strip Reagent or Lot #**

**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.

Comments:

COC ID #: <u>19857</u>						Adjusted by: _____ Date: _____						
Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
Preservative	NaOH >12		H <sub>2</sub> SO <sub>4</sub> <2		H <sub>2</sub> SO <sub>4</sub> <2		HNO <sub>3</sub> <2		HNO <sub>3</sub> <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							(NO SAMPLE)					
COC Line #7							✓					
COC Line #8							✓					
COC Line #9							✓					
COC Line #10							✓					
COC Line #11							✓					
COC Line #12							✓					

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

Comments:



