

Lead in Drinking Water – Public and Nonpublic Schools

Updated in response to legislation effective as of June 1, 2021

IMPORTANT NOTICE: ELEVATED LEAD WATER SAMPLE RESULT(S) **Georgetown East Elementary School**

ELEVATED LEAD WATER SAMPLE RESULT(S)

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations. On September 22, 2023, thirty-four (34) lead water samples were collected from Georgetown East Elementary School. Of these lead water samples, five (5) had levels of lead exceeding the State's revised action level of 5 parts per billion (ppb) (*formerly 20 ppb; 5 ppb effective June 1, 2021*) for lead in drinking water in school buildings. The elevated lead results from the sample(s) collected at Georgetown East Elementary School were as follows:

12.6 (ppb) Sample # 2 Classroom 157A ECI sink- Left
5.02 (ppb) Sample #3 Classroom 157A ECI sink- Right
5.00 (ppb) Sample #13 Kitchen Tri-Sink -Left
15.4 (ppb) Sample #24 Classroom 145 Kitchen Area sink
8.46 (ppb) Sample #59 Hallway Fountain next to Boys 111A

ACTION LEVEL (AL)

Effective June 1, 2021, the State's AL for lead in drinking water samples collected from outlets in school buildings has been lowered to 5 ppb. The AL is the concentration of lead which, if exceeded, triggers required remediation of drinking water outlets.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones, and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These sources include lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, and cosmetics, exposure in the workplace and exposure from certain hobbies, brass faucets, fittings, and valves. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

IMMEDIATE ACTIONS TAKEN

All consumable outlets exceeding the Action Level were turned off or a "Hand Washing Only", "Do Not Drink" or "Dish Washing Only" sticker was applied.

NEXT STEPS

Sample # 2 Classroom 157A ECI sink - Left a "Hand Washing Only" sticker will be applied.
Sample #3 Classroom 157A ECI sink - Right a "Hand Washing Only" sticker will be applied.
Sample #13 Kitchen Tri-Sink -Left a "Dish Washing Only" sticker will be applied.
Sample #24 Classroom 145 Kitchen Area sink a "Hand Washing Only" sticker will be applied.
Sample #59 Hallway Fountain next to Boys 111A will be removed.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

Please note that boiling the water will not reduce lead levels.

ADDITIONAL INFORMATION

For additional information, please contact the Environmental, Health and Safety Office at 443-770-5950. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.



AACPS - Operations Division
9034 Ft. Smallwood Road

Pasadena, MD 21122
Attention: Chris Williams; Brian Wells

Wednesday, January 3, 2024

Certificate of Analysis
AMENDED

Project Information:

Report for Lab No: 70004.

School: Georgetown East ES
Sampling by regulation to Maryland House Bill 270 - Lead in Drinking Water
P.O. Number: PO 21B21062901660
Sampling by Martel personnel on September 22, 2023.

References and Important Notes:

SM="Standard Methods for the Examination of Water and Wastewater", American Public Health Association, American Water Works Association, and Water Environment Federation. Year in method code is approved date.
40CFR141=U.S. "Code of Federal Regulations", Title 40, Protection of the Environment, Part 141, National Primary Drinking Water Regulations.

* results exceeded 5.5 ug/l.

This report amends either the original report or the last amended report sent on: 01/02/2024.
It has been amended for the following reason(s): To correct sample id for samples 2 and 3.

Notices:

Chain of Custody Form(s) are attached and are an integral part of this report.
This report will be retained for at least five years and will be disposed of without notice.
Measurement uncertainty for each listed test is available upon request.
The results presented herein relate only to the samples or items tested.
All samples tested were in acceptable condition, unless otherwise noted.



MARTEL NO. 70004	2	CLIENT SAMPLE IDENTIFICATION Classroom 157A ECI - Left [CR-NC]				Sample Date/Time 09/22/2023 04:58
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		12.6	ug/l*	EPA .200.8	2	12/06/2023 15:38 EK

MARTEL NO. 70004	3	CLIENT SAMPLE IDENTIFICATION Classroom 157A ECI - Right [CR-NC]				Sample Date/Time 09/22/2023 04:58
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		5.02	ug/l	EPA .200.8	2	12/06/2023 15:51 EK

MARTEL NO. 70004	9	CLIENT SAMPLE IDENTIFICATION Cafeteria Café Fountain [DF--C]				Sample Date/Time 09/22/2023 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 15:54 EK

MARTEL NO. 70004	12	CLIENT SAMPLE IDENTIFICATION Kitchen Kitchen Dual Sink Sink [KS--C]				Sample Date/Time 09/22/2023 05:02
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 15:56 EK

MARTEL NO. 70004	13	CLIENT SAMPLE IDENTIFICATION Kitchen Tri Sink- L [KS--C]				Sample Date/Time 09/22/2023 05:02
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		5.00	ug/l	EPA .200.8	2	12/06/2023 15:59 EK

MARTEL NO. 70004	18	CLIENT SAMPLE IDENTIFICATION Classroom 150 [CF--C]				Sample Date/Time 09/22/2023 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		n/a		EPA .200.8	2	/ /

MARTEL NO. 70004	20	CLIENT SAMPLE IDENTIFICATION Classroom 149 [CF--C]				Sample Date/Time 09/22/2023 05:20
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 16:02 EK

MARTEL NO. 70004	22	CLIENT SAMPLE IDENTIFICATION Classroom Tri Sink- R [DF--C]				Sample Date/Time 09/22/2023 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead		n/a		EPA .200.8	2	/ /



MARTEL NO. 70004	24	CLIENT SAMPLE IDENTIFICATION Classroom 145-Kitchen area HS [KS--C]	Sample Date/Time 09/22/2023 05:16
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	15.4	ug/l*	EPA .200.8	2	12/06/2023 16:04 EK

MARTEL NO. 70004	27	CLIENT SAMPLE IDENTIFICATION Hallway Fountain(outside Boys 143) [DF--C]	Sample Date/Time 09/22/2023 05:10
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:07 EK

MARTEL NO. 70004	30	CLIENT SAMPLE IDENTIFICATION Lounge 141 Teachers Lounge HS [TL--C]	Sample Date/Time 09/22/2023 05:12
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:09 EK

MARTEL NO. 70004	31	CLIENT SAMPLE IDENTIFICATION Lounge 141 Teachers Lounge- Well system dispense [OT--C]	Sample Date/Time 09/22/2023 05:17
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:20 EK

MARTEL NO. 70004	35	CLIENT SAMPLE IDENTIFICATION Classroom Media (next to workroom B [CF--C]	Sample Date/Time 09/22/2023 05:18
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:26 EK

MARTEL NO. 70004	45	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to boys 103A) [CF--C]	Sample Date/Time 09/22/2023 05:26
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.09	ug/l	EPA .200.8	2	12/06/2023 16:29 EK

MARTEL NO. 70004	46	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to boys 103A) [DF--C]	Sample Date/Time 09/22/2023 05:26
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.82	ug/l	EPA .200.8	2	12/06/2023 16:31 EK

MARTEL NO. 70004	52	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to boys 107) [CF--C]	Sample Date/Time 09/22/2023 05:27
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.45	ug/l	EPA .200.8	2	12/06/2023 16:34 EK



MARTEL NO. 70004	53	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to boys 107) [DF--C]	Sample Date/Time 09/22/2023 05:27
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	4.14	ug/l	EPA .200.8	2	12/06/2023 16:36 EK

MARTEL NO. 70004	59	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to Boys 111A) [CF--C]	Sample Date/Time 09/22/2023 05:32
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	8.46	ug/l*	EPA .200.8	2	12/06/2023 16:39 EK

MARTEL NO. 70004	60	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to Boys 111A) [DF--C]	Sample Date/Time 09/22/2023 05:32
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.15	ug/l	EPA .200.8	2	12/06/2023 16:42 EK

MARTEL NO. 70004	64	CLIENT SAMPLE IDENTIFICATION Classroom K106 [CF--C]	Sample Date/Time 09/22/2023 05:38
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:44 EK

MARTEL NO. 70004	67	CLIENT SAMPLE IDENTIFICATION Classroom K105 [CF--C]	Sample Date/Time 09/22/2023 05:40
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:47 EK

MARTEL NO. 70004	70	CLIENT SAMPLE IDENTIFICATION Classroom K104 [CF--C]	Sample Date/Time 09/22/2023 05:41
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 16:55 EK

MARTEL NO. 70004	73	CLIENT SAMPLE IDENTIFICATION Classroom K103 [CF--C]	Sample Date/Time 09/22/2023 05:42
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 17:03 EK

MARTEL NO. 70004	76	CLIENT SAMPLE IDENTIFICATION Classroom K102 [CF--C]	Sample Date/Time 09/22/2023 05:40
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 17:06 EK



MARTEL NO. 70004	79	CLIENT SAMPLE IDENTIFICATION Classroom K101 [CF--C]	Sample Date/Time 09/22/2023 05:43
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 17:08 EK

MARTEL NO. 70004	84	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to 115C Boys) [CF--C]	Sample Date/Time 09/22/2023 05:56
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	4.65	ug/l	EPA .200.8	2	12/06/2023 17:11 EK

MARTEL NO. 70004	85	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to 115C Boys) [DF--C]	Sample Date/Time 09/22/2023 05:56
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	3.50	ug/l	EPA .200.8	2	12/06/2023 17:14 EK

MARTEL NO. 70004	91	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to Boys 119C) [CF--C]	Sample Date/Time 09/22/2023 05:58
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 17:16 EK

MARTEL NO. 70004	92	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (next to Boys 119C) [DF--C]	Sample Date/Time 09/22/2023 05:58
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	3.42	ug/l	EPA .200.8	2	12/06/2023 17:19 EK

MARTEL NO. 70004	98	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (Next to 123C Boys) [CF--C]	Sample Date/Time 09/22/2023 05:59
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	4.37	ug/l	EPA .200.8	2	12/06/2023 17:22 EK

MARTEL NO. 70004	99	CLIENT SAMPLE IDENTIFICATION Hallway Fountain (Next to 123C Boys) [DF--C]	Sample Date/Time 09/22/2023 05:59
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	4.43	ug/l	EPA .200.8	2	12/06/2023 17:24 EK

MARTEL NO. 70004	102	CLIENT SAMPLE IDENTIFICATION Other 128E Conference room [OT--C]	Sample Date/Time 09/22/2023 06:02
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Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	12/06/2023 17:35 EK



MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
70004 104		Nurses Office 132 Health [NO--C]				09/22/2023 06:04	
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 17:40 EK	
MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
70004 105		Nurses Office 132A Health-BR [NO--C]				09/22/2023 06:04	
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 17:43 EK	
MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
70004 12F		Kitchen Kitchen Dual Sink Sink [KS--C]				09/22/2023 06:10	
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 17:45 EK	
MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
70004 13F		Kitchen Tri Sink- L [KS--C]				09/22/2023 06:10	
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	12/06/2023 17:48 EK	

MARTEL Chain of Custody Record

Martel Laboratories JDS Inc., 1025 Cromwell Bridge Rd., Baltimore, MD 21286, (410) 825-7790, FAX (410) 821-1054, email: martel@martellabs.com

Anne Arundel County Public Schools Drinking Water Lead Testing

Bottle Type: 250 ml plastic, preserved with HNO3 Analysis: Lead (EPA 200.8)

Start Date/Time: 9-22-23 4:50 End Date/Time: 9-22 6:04

Sampler/Relinquished By: AS Received at Martel by S. Lewis Date/Time: 9-22 12:30

Georgetown East ES

111 Dogwood Rd, Annapolis, MD 21403

ALL OUTLET WERE FLUSHED THE NIGHT BEFORE
SAMPLING BETWEEN THE HOURS OF 5 PM AND 9PM

Floor

Martel NO:

70004

Martel #	Sample #	Room #	Fixture Type (Sink, Bubbler, Water Fountain, Gooseneck, Ice Machine, Hose Bibb, etc.)	Outlet Key Codes	Fixture Types Key	Consumption C or NC?	Time/notes
1	2	Classroom	157A ECI	CF	Drinking Water Fountain-Bubbler Style	C	4:58
2	3	Classroom	157A ECI	DF	Drinking Water Fountain-Bubbler Style	C	↓
3	9	Cafeteria	Café Fountain	DF	Drinking Water Fountain- Cooler/Chiller Style	C	5:00
4	12	Kitchen	Kitchen Dual Sink Sink	KS	Faucet, Cold	C	5:02
5	13	Kitchen	Tri Sink- L	KS	Faucet, Cold	C	↓
6	18	Classroom	150	CF	Drinking Water Fountain-Bubbler Style	C	N.A.
7	20	Classroom	149	CF	Drinking Water Fountain-Bubbler Style	C	5:20
8	22	Classroom	Tri Sink- R	DF	Drinking Water Fountain- Cooler/Chiller Style	C	N.A.
9	24	Classroom	145-Kitchen area HS	KS	Faucet, Cold	C	5:16
10	27	Hallway	Fountain(outside Boys 143)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	5:10
11	30	Lounge	141 Teachers Lounge HS	TL	Faucet, Cold	C	5:12
12	31	Lounge	141 Teachers Lounge- Well system dispense	OT	Drinking Water Fountain- Cooler/Chiller Style	C	5:17
13	35	Classroom	Media (next to workroom B)	CF	Drinking Water Fountain-Bubbler Style	C	5:18
14	45	Hallway	Fountain (next to boys 103A)	CF	Drinking Water Fountain-Bubbler Style	C	5:26
15	46	Hallway	Fountain (next to boys 103A)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	↓
16	52	Hallway	Fountain (next to boys 107)	CF	Drinking Water Fountain-Bubbler Style	C	5:27
17	53	Hallway	Fountain (next to boys 107)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	↓
18	59	Hallway	Fountain (next to Boys 111A)	CF	Drinking Water Fountain-Bubbler Style	C	5:32
19	60	Hallway	Fountain (next to Boys 111A)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	↓
20	64	Classroom	K106	CF	Drinking Water Fountain-Bubbler Style	C	5:38
21	67	Classroom	K105	CF	Drinking Water Fountain-Bubbler Style	C	5:40
22	70	Classroom	K104	CF	Drinking Water Fountain-Bubbler Style	C	5:41
23	73	Classroom	K103	CF	Drinking Water Fountain-Bubbler Style	C	5:42

Georgetown East ES

111 Dogwood Rd, Annapolis, MD 21403

24	76	Classroom	K102	CF	Drinking Water Fountain-Bubbler Style	C	1	5:40
25	79	Classroom	K101	CF	Drinking Water Fountain-Bubbler Style	C	1	5:47
26	84	Hallway	Fountain (next to 115C Boys)	CF	Drinking Water Fountain-Bubbler Style	C	1	5:56
27	85	Hallway	Fountain (next to 115C Boys)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	1	↓
28	91	Hallway	Fountain (next to Boys 119C)	CF	Drinking Water Fountain-Bubbler Style	C	1	5:58
29	92	Hallway	Fountain (next to Boys 119C)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	1	↓
30	98	Hallway	Fountain (Next to 123C Boys)	CF	Drinking Water Fountain-Bubbler Style	C	1	5:59
31	99	Hallway	Fountain (Next to 123C Boys)	DF	Drinking Water Fountain- Cooler/Chiller Style	C	1	↓
32	102	Other	128E Conference room	OT	Faucet, Cold	C	1	6:02
33	104	Nurses Office	132 Health	NO	Faucet, Cold	C	1	6:04
34	105	Nurses Office	132A Health-BR	NO	Faucet, Cold	C	1	↓
35	12	Kitchen	Kitchen Dual Sink Sink	KS	Faucet, Cold	C	1	FLUSH
36	13	Kitchen	Tri Sink- L	KS	Faucet, Cold	C	1	FLUSH