

**eattle Public Schools**  
**Drinking Water Quality Program**

**Results of Water Quality Testing**  
**for**  
**Muir Elementary School**

Updated July 9, 2020

**General Information:**

Plumbing piping materials: mainly copper

**Remediation plan:**

*This remediation plan is based on a Water Quality policy approved by the School Board. The policy includes standards for the presence of lead, cadmium, copper, iron and other substances in drinking water.*

**Sinks (S in the report) are not considered drinking water sources.** We recognize that there is the potential for students to want to drink from classroom hand-washing sinks, so we test all of those. Where a student's choice to drink from a sink could be a problem, we post a reminder sign, as we do at all restroom sinks.

Status:

Policy Criteria:

There is one source that doesn't meet the policy criteria. A sign will be posted at room #11, powerful school office (#14)

Follow-up monitoring: Will be performed in school year 2022-2023

Service: The school will be flushed after any breaks longer than five days.

## Water Quality Testing Results:

### Legend

Symbol	Definition
SE	service entry (main)
B	bubbler
S	sink (faucet)
B/S	sink/bubbler combination
S/B	sink/bubbler combination
ppb	parts per billion
ppm	parts per million
NA	not applicable
None	no action required
Unk	unknown status or action
Sample	sample needs to be taken
Re-test	fixture needs to be resampled
Conf	resample to confirm measurement
No flush	not flushed before sampling
Sink	sampled faucet of S/B combo
Used	recently used; no 1st draw sample possible
PS	post sign
Disable(d)	fixture disabled in response to water quality testing
BDSS	Bubbler disabled, sign on sink
IF	install filter
RB	replace bubbler
RB/IF	replace bubbler and/or install filter
RF	replace faucet
RF/IF	replace faucet and/or install filter
BW	disable fixture and provide bottled water until remediated
Leaks	leaking fixture
NW	not working properly (sample S when B of S/B NW)
OS	out of service - disabled until fixed
RS	return to service - now passes testing
Rem	Removed from system - no longer exists

Table 1. Summary of Results

FIXTURE INFORMATION			LEAD		CADMIUM		COPPER		IRON		OK?
Fixture ID	Type	Location	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Yes/No/Status
01	B	hallway between lavs	P	None	P	None	P	None	P	None	Yes
02	B/S	sims tech lab	P	None	P	None	P	None	P	None	Yes
03	B/S	av tach lab	P	None	P	None	P	None	P	None	Yes
04	B/S	room # 4, 2nd & 3rd	P	None	P	None	P	None	P	None	Yes
05	B	hallway near room # 4	P	None	P	None	P	None	P	None	Yes
06	B/S	room # 7, 1st grade	P	None	P	None	P	None	P	None	Yes
07	B/S	room # 8, 1st grade	P	None	P	None	P	None	P	None	Yes
08	B/S	room # 10, kindergarten	P	None	P	None	P	None	P	None	Yes
09	B/S	room # 9, kindergarten	P	None	P	None	P	None	P	None	Yes
10	B/S	room # 6, 2nd grade	P	None	P	None	P	None	P	None	Yes
11	B/S	room # 5, 2nd grade	P	None	P	None	P	None	P	None	Yes
12	B/S	room # 2, kindergarten	P	None	P	None	P	None	P	None	Yes
13	B/S	room # 1, resource	P	None	P	None	P	None	P	None	Yes
14	B/S	room # 11, powerful school office	F	PS	P	None	P	None	P	None	PS
15	B/S	room # 14, art classroom	P	None	P	None	P	None			Yes
16	B/S	room # 15, 5th grade	P	None	P	None	P	None	P	None	Yes
17	B/S	room # 16, 5th grade	P	None	P	None	P	None	P	None	Yes
18	B/S	room # 17, 4th grade	P	None	P	None	P	None	P	None	Yes
19	B/S	room # 18, ESL	P	None	P	None	P	None	P	None	Yes
20	B/S	room # 20, 4th grade	P	None	P	None	P	None	P	None	Yes
21	B/S	room # 19, 3rd grade	P	None	P	None	P	None	P	None	Yes
22	B	hallway	P	None	P	None	P	None	P	None	Yes
23	B/S	open classroom	P	None	P	None	P	None	P	None	Yes
24	B/S	room # 13, 1st to 3rd	P	None	P	None	P	None			Yes
25	B/S	Theraphy	P	None	P	None	P	None	P	None	Yes
26	B/S	room # 14, art classroom	P	None	P	None	P	None	P	None	Yes
50	S	teachers lounge	P	None	P	None	P	None	P	None	Yes
53	S	nurses office - stainless sink	P	None	P	None	P	None	P	None	Yes
54	S	family room	P	None	P	None	P	None	P	None	Yes
55	B	bottle filler - first floor hallway	P	None	P	None	P	None	P	None	Yes
56	S	Kitchen, handwash	P	None	P	None	P	None			Yes
57	S	Auditorium sink next to kitchen	P	None	P	None	P	None	P	None	Yes
58	S	kitchen, north wall, left	P	None	P	None	P	None	P	None	Yes
59	S	kitchen, north wall, right	P	None	P	None	P	None	P	None	Yes
61	B/S	work room	P	None	P	None	P	None	P	None	Yes
62	S	open classroom	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			1/26/2010			6/21/2013			12/15/2016			6/11/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hallway between lavs	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
02	B/S	sims tech lab	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
03	B/S	av tach lab	8	1	P	8	2	P	4	<1	P	1	<1	P	P	None
04	B/S	room # 4, 2nd & 3rd	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	B	hallway near room # 4	<1	<1	P	<1	<1	P	<1	<1	P	1	1	P	P	None
06	B/S	room # 7, 1st grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
07	B/S	room # 8, 1st grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	B/S	room # 10, kindergarten	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
09	B/S	room # 9, kindergarten	4	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
10	B/S	room # 6, 2nd grade	<1	<1	P	3	2	P	10	2	P	6	2	P	P	None
11	B/S	room # 5, 2nd grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	B/S	room # 2, kindergarten	<1	<1	P	<1	<1	P	<1	<1	P	<1	1	P	P	None
13	B/S	room # 1, resource	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	B/S	room # 11, powerful school office	7	<1	P	7	1	P	8	1	P	11	1		F	PS
15	B/S	room # 14, art classroom	<1	<1	P				3	<1	P	<1	<1	P	P	None
16	B/S	room # 15, 5th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	B/S	room # 16, 5th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
18	B/S	room # 17, 4th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
19	B/S	room # 18, ESL	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
20	B/S	room # 20, 4th grade	2	<1	P	2	<1	P	3	<1	P	3	<1	P	P	None
21	B/S	room # 19, 3rd grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
22	B	hallway	<1	<1	P	<1	<1	P				1	<1	P	P	None
23	B/S	open classroom	1	<1	P	<1	<1	P	1	<1	P	<1	<1	P	P	None
24	B/S	room # 13, 1st to 3rd	<1	<1	P	<1	3	P	<1	2	P	<1	2	P	P	None
25	B/S	Therapy	2	<1	P	8	3	P	<1	<1	P	<1	<1	P	P	None
26	B/S	room # 14, art classroom	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
50	S	teachers lounge	<1	<1	P	<1	<1	P	<1	<1	P	1	2	P	P	None
53	S	nurses office - stainless sink	2	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
54	S	family room	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
55	B	bottle filler - first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P	P	None
56	S	Kitchen, handwash	<1	<1	P	3	<1	P	<1	<1	P	1	<1	P	P	None
57	S	Auditorium sink next to kitchen	<1	<1	P	<1	<1	P	<1	1	P	<1	<1	P	P	None
58	S	kitchen, north wall, left	2	<1	P	3	<1	P	6	<1	P	<1	<1	P	P	None
59	S	kitchen, north wall, right	<1	<1	P	<1	<1	P	4	<1	P	<1	<1	P	P	None
61	B/S	work room	3	1	P	14	2		1	<1	P	<1	1	P	P	None
62	S	open classroom	3	<1	P	4	3	P	3	1	P	2	1	P	P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			1/26/2010			6/21/2013			12/15/2016			6/11/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hallway between lavs	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
02	B/S	sims tech lab	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
03	B/S	av tach lab	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
04	B/S	room # 4, 2nd & 3rd	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	B	hallway near room # 4	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
06	B/S	room # 7, 1st grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
07	B/S	room # 8, 1st grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	B/S	room # 10, kindergarten	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
09	B/S	room # 9, kindergarten	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
10	B/S	room # 6, 2nd grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
11	B/S	room # 5, 2nd grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	B/S	room # 2, kindergarten	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
13	B/S	room # 1, resource	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	B/S	room # 11, powerful school office	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
15	B/S	room # 14, art classroom	<1	<1	P				<1	<1	P	<1	<1	P	P	None
16	B/S	room # 15, 5th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	B/S	room # 16, 5th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
18	B/S	room # 17, 4th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
19	B/S	room # 18, ESL	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
20	B/S	room # 20, 4th grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
21	B/S	room # 19, 3rd grade	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
22	B	hallway	<1	<1	P	<1	<1	P				<1	<1	P	P	None
23	B/S	open classroom	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
24	B/S	room # 13, 1st to 3rd	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
25	B/S	Therapy	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
26	B/S	room # 14, art classroom	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
50	S	teachers lounge	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
53	S	nurses office - stainless sink	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
54	S	family room	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
55	B	bottle filler - first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P	P	None
56	S	Kitchen, handwash	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
57	S	Auditorium sink next to kitchen	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
58	S	kitchen, north wall, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
59	S	kitchen, north wall, right	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
61	B/S	work room	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
62	S	open classroom	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			1/26/2010			6/21/2013			12/15/2016			6/11/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hallway between lavs	0.113	0.084	P	0.084	0.076	P	0.084	0.088	P	0.08	0.072	P	P	None
02	B/S	sims tech lab	0.428	0.343	P	0.277	0.309	P	0.321	0.161	P	0.3	0.24	P	P	None
03	B/S	av tach lab	0.378	0.425	P	0.277	0.32	P	0.263	0.323	P	0.268	0.359	P	P	None
04	B/S	room # 4, 2nd & 3rd	0.301	0.205	P	0.172	0.181	P	0.188	0.118	P	0.249	0.194	P	P	None
05	B	hallway near room # 4	0.198	0.169	P	0.113	0.097	P	0.107	0.087	P	0.15	0.153	P	P	None
06	B/S	room # 7, 1st grade	0.228	0.144	P	0.138	0.133	P	0.135	0.122	P	0.146	0.146	P	P	None
07	B/S	room # 8, 1st grade	0.311	0.316	P	0.186	0.19	P	0.187	0.216	P	0.258	0.224	P	P	None
08	B/S	room # 10, kindergarten	0.204	0.153	P	0.127	0.122	P	0.119	0.117	P	0.128	0.116	P	P	None
09	B/S	room # 9, kindergarten	0.258	0.258	P	0.129	0.116	P	0.116	0.103	P	0.134	0.109	P	P	None
10	B/S	room # 6, 2nd grade	0.256	0.352	P	0.172	0.178	P	0.144	0.164	P	0.166	0.214	P	P	None
11	B/S	room # 5, 2nd grade	0.213	0.196	P	0.162	0.203	P	0.147	0.177	P	0.159	0.136	P	P	None
12	B/S	room # 2, kindergarten	0.211	0.186	P	0.141	0.151	P	0.124	0.094	P	0.196	0.158	P	P	None
13	B/S	room # 1, resource	0.27	0.15	P	0.148	0.145	P	0.145	0.127	P	0.136	0.102	P	P	None
14	B/S	room # 11, powerful school office	0.285	0.209	P	0.15	0.129	P	0.152	0.106	P	0.154	0.109	P	P	None
15	B/S	room # 14, art classroom	0.34	0.409	P				0.31	0.35	P	0.326	0.34	P	P	None
16	B/S	room # 15, 5th grade	0.279	0.312	P	0.199	0.228	P	0.171	0.163	P	0.198	0.174	P	P	None
17	B/S	room # 16, 5th grade	0.308	0.14	P	0.176	0.13	P	0.196	0.103	P	0.176	0.081	P	P	None
18	B/S	room # 17, 4th grade	0.266	0.19	P	0.192	0.114	P	0.174	0.119	P	0.179	0.139	P	P	None
19	B/S	room # 18, ESL	0.429	0.289	P	0.262	0.179	P	0.264	0.176	P	0.489	0.14	P	P	None
20	B/S	room # 20, 4th grade	0.344	0.247	P	0.207	0.134	P	0.202	0.141	P	0.297	0.18	P	P	None
21	B/S	room # 19, 3rd grade	0.003	<0.002	P	0.005	<0.002	P	<0.002	<0.002	P	0.029	0.03	P	P	None
22	B	hallway	0.28	0.165	P	0.175	0.11	P				0.224	0.167	P	P	None
23	B/S	open classroom	0.25	0.132	P	0.134	0.134	P	0.137	0.099	P	0.197	0.058	P	P	None
24	B/S	room # 13, 1st to 3rd	0.061	0.078	P	0.032	0.031	P	0.02	0.022	P	0.019	0.024	P	P	None
25	B/S	Therapy	0.154	0.14	P	0.12	0.082	P	0.064	0.072	P	0.063	0.045	P	P	None
26	B/S	room # 14, art classroom	0.342	0.242	P	0.239	0.191	P	0.225	0.188	P	0.228	0.162	P	P	None
50	S	teachers lounge	0.206	0.096	P	0.059	0.081	P	0.069	0.059	P	0.055	0.051	P	P	None
53	S	nurses office - stainless sink	0.274	0.148	P	0.16	0.129	P	0.128	0.142	P	0.241	0.223	P	P	None
54	S	family room	0.36	0.46	P	0.213	0.362	P	0.265	0.298	P	0.371	0.124	P	P	None
55	B	bottle filler - first floor hallway	0.13	0.136	P				0.089	0.087	P	0.077	0.081	P	P	None
56	S	Kitchen, handwash	0.219	0.047	P	0.119	0.214	P	0.167	0.045	P	0.181	0.113	P	P	None
57	S	Auditorium sink next to kitchen	0.217	0.056	P	0.078	0.102	P	0.096	0.042	P	0.131	0.07	P	P	None
58	S	kitchen, north wall, left	0.18	0.061	P	0.134	0.086	P	0.101	0.056	P	0.144	0.122	P	P	None
59	S	kitchen, north wall, right	0.186	0.051	P	0.129	0.087	P	0.098	0.068	P	0.103	0.083	P	P	None
61	B/S	work room	0.315	0.109	P	0.233	0.077	P	0.224	0.078	P	0.041	0.046	P	P	None
62	S	open classroom	0.024	0.041	P	0.041	0.037	P	0.028	0.031	P	0.028	0.027	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			1/26/2010		6/21/2013		12/15/2016		6/11/2020		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
01	B	hallway between lavs									P	None
02	B/S	sims tech lab									P	None
03	B/S	av tach lab									P	None
04	B/S	room # 4, 2nd & 3rd									P	None
05	B	hallway near room # 4									P	None
06	B/S	room # 7, 1st grade									P	None
07	B/S	room # 8, 1st grade									P	None
08	B/S	room # 10, kindergarten	<0.05	P							P	None
09	B/S	room # 9, kindergarten			<0.05	P					P	None
10	B/S	room # 6, 2nd grade					0.053	P			P	None
11	B/S	room # 5, 2nd grade							<0.05	P	P	None
12	B/S	room # 2, kindergarten									P	None
13	B/S	room # 1, resource									P	None
14	B/S	room # 11, powerful school office	<0.05	P							P	None
15	B/S	room # 14, art classroom										
16	B/S	room # 15, 5th grade									P	None
17	B/S	room # 16, 5th grade									P	None
18	B/S	room # 17, 4th grade									P	None
19	B/S	room # 18, ESL									P	None
20	B/S	room # 20, 4th grade	<0.05	P							P	None
21	B/S	room # 19, 3rd grade			<0.05	P					P	None
22	B	hallway									P	None
23	B/S	open classroom	<0.05	P							P	None
24	B/S	room # 13, 1st to 3rd			0.505							
25	B/S	Therapy					0.05	P			P	None
26	B/S	room # 14, art classroom							<0.05	P	P	None
50	S	teachers lounge									P	None
53	S	nurses office - stainless sink									P	None
54	S	family room									P	None
55	B	bottle filler - first floor hallway									P	None
56	S	Kitchen, handwash										
57	S	Auditorium sink next to kitchen	<0.05	P							P	None
58	S	kitchen, north wall, left			<0.05	P					P	None
59	S	kitchen, north wall, right					0.073	P			P	None
61	B/S	work room							0.303	P	P	None
62	S	open classroom										

Table 6. Service Entry Test Results

Test Results (Service Entry/SE, Units as Shown)						
SOURCE INFORMATION			Most Recent Sampling			
Fixture ID	Type	Location	Item	Sampled	Max Value	Pass/Fail
00	SE	Kitchen - corner faucet	Arsenic	11-Jun-20	2 ppb	P
00	SE	Kitchen - corner faucet	Cadmium	11-Jun-20	1 ppb	P
00	SE	Kitchen - corner faucet	Chlorine	09-Apr-04	0.45 ppm	P
00	SE	Kitchen - corner faucet	Copper	11-Jun-20	0.086 ppm	P
00	SE	Kitchen - corner faucet	E coli	09-Apr-04	<1 Colonies	P
00	SE	Kitchen - corner faucet	Iron	11-Jun-20	<0.05 ppm	P
00	SE	Kitchen - corner faucet	Lead	11-Jun-20	1 ppb	P
00	SE	Kitchen - corner faucet	Total Coliforms	09-Apr-04	<1 Colonies	P

“<” means: less than the value shown (below analytical detection limits).  
 “n/a” means: not applicable.

Table 7. Bacteriological Test Results

**Bacteriological Characteristics**

Bacteriological testing of selected samples indicated no (zero) coliform bacteria.