

**Seattle Public Schools
Drinking Water Quality Program**

**Results of Water Quality Testing
for
Boren K-8**

Updated September 3, 2019

General Information:

Plumbing piping materials: mixed galvanized steel and 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: All sources meet the policy criteria.

Follow-up monitoring: Will be performed in school year 2021-2022

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 ddisabled,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

CURRENT STATUS											
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	hall outside cafeteria	P	None	P	None	P	None			Yes
02	B	gym	P	None	P	None	P	None			Yes
03	B	gym	P	None	P	None	P	None	P	None	Yes
04	B	bottle filler outside gym	P	None	P	None	P	None			Yes
05	B	outside gym	P	None	P	None	P	None			Yes
06	B	outside office	P	None	P	None	P	None	P	None	Yes
07	B	hallway outside lounge	P	None	P	None	P	None	P	None	Yes
08	B	hallway, by room 160	P	None	P	None	P	None	P	None	Yes
09	B	hallway, outside library	P	None	P	None	P	None	P	None	Yes
10	B	hallway, by central wing	P	None	P	None	P	None	P	None	Yes
11	B	hallway, by women's restroom	P	None	P	None	P	None	P	None	Yes
12	B	hallway, at north wing	P	None	P	None	P	None	P	None	Yes
14	S	room 122, North, right	P	None	P	None	P	None	P	None	Yes
16	S	room 147, home ec. Room,	P	None	P	None	P	None	P	None	Yes
21	B	girls locker room	P	None	P	None	P	None			Yes
22	B	wellness center, by room 201B	P	None	P	None	P	None	P	None	Yes
23	S	nurse's office, rom 201G, treatment room	P	None	P	None	P	None	P	None	Yes
24	S	staff lounge (rm. 188)	P	None	P	None	P	None	P	None	Yes
25	S	South kitchen wall, left	P	None	P	None	P	None	P	None	Yes
26	S	South kitchen wall, center	P	None	P	None	P	None	P	None	Yes
27	S	South kitchen wall, right	P	None	P	None	P	None			Yes
28	S	office workroom	P	None	P	None	P	None	P	None	Yes
29	S	nurse office, by room 201F	P	None	P	None	P	None			Yes
30	S	library	P	None	P	None	P	None			Yes
31	S	library office	P	None	P	None	P	None	P	None	Yes
32	S	room 178	P	None	P	None	P	None	P	None	Yes
33	S	room 122, North, left	P	None	P	None	P	None			Yes
34	S	room 122, South, left	P	None	P	None	P	None	P	None	Yes
35	S	room 122, South, right	P	None	P	None	P	None			Yes
36	S	band room	P	None	P	None	P	None			Yes
37	S	CE lunch room	P	None	P	None	P	None			Yes
38	B	outside 233A	P	None	P	None	P	None			Yes
39	S	room 167	P	None	P	None	P	None	P	None	Yes
40	S	room 148	P	None	P	None	P	None			Yes
41	S	room 149	P	None	P	None	P	None			Yes
42	S	room 151	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			8/28/2012			11/7/2014			9/2/2015			9/20/2016			3/7/2019			8/27/2019			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	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	Pass /Fail	Status
01	B	hall outside cafeteria	<1	<1	P				<1	<1	P				<1	<1	P				P	None
02	B	gym	3	<1	P				1	<1	P				<1	<1	P				P	None
03	B	gym	5	<1	P				4	<1	P				1	<1	P				P	None
04	B	bottle filler outside gym	5	5	P				2	<1	P	1	<1	P	<1	<1	P				P	None
05	B	outside gym	<1	<1	P				<1	<1	P				<1	<1	P				P	None
06	B	outside office							4	2	P				1	1	P				P	None
07	B	hallway outside lounge	2	<1	P				1	<1	P				<1	<1	P				P	None
08	B	hallway, by room 160	3	<1	P				1	2	P				<1	<1	P				P	None
09	B	hallway, outside library	8	1	P				5	1	P				<1	1	P				P	None
10	B	hallway, by central wing	3	<1	P				3	2	P				<1	<1	P				P	None
11	B	hallway, by women's restroom	2	1	P				<1	2	P				1	<1	P				P	None
12	B	hallway, at north wing	3	<1	P				<1	<1	P				<1	<1	P				P	None
14	S	room 122, North, right	13	2					4	<1	P				2	2	P				P	None
16	S	room 147, home ec. Room,	7	<1	P				2	<1	P				1	<1	P				P	None
21	B	girls locker room	15	56					16	16								8	4	P	P	None
22	B	wellness center, by room 201B	4	1	P				1	<1	P				<1	<1	P				P	None
23	S	nurse's office, rom 201G, treatment room	2	<1	P				24	7					<1	<1	P				P	None
24	S	staff lounge (rm. 188)	1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P				P	None
25	S	South kitchen wall, left	4	<1	P				2	<1	P				1	2	P				P	None
26	S	South kitchen wall, center	4	<1	P				<1	<1	P				<1	<1	P				P	None
27	S	South kitchen wall, right	7	<1	P				1	<1	P				<1	<1	P				P	None
28	S	office workroom	5	2	P				5	1	P				2	<1	P				P	None
29	S	nurse office, by room 201F	3	<1	P				24	1					<1	<1	P				P	None
30	S	library	7	1	P				10	5	P				5	2	P				P	None
31	S	library office	5	2	P				9	12					7	3	P	4	5	P	P	None
32	S	room 178	7	<1	P				2	<1	P										P	None
33	S	room 122, North, left	5	<1	P				8	<1	P				2	1	P				P	None
34	S	room 122, South, left	3	<1	P				1	1	P				<1	2	P				P	None
35	S	room 122, South, right	5	<1	P				6	<1	P				<1	2	P				P	None
36	S	band room	7	26											3	4	P	2	3	P	P	None
37	S	CE lunch room							<1	<1	P				<1	<1	P				P	None
38	B	outside 233A										<1	<1	P	<1	<1	P				P	None
39	S	room 167										4	2	P	<1	<1	P				P	None
40	S	room 148													<1	<1	P				P	None
41	S	room 149													3	3	P				P	None
42	S	room 151													<1	<1	P				P	None

Table 3. Cadmium Test Results

Test Results (Cadmium/Cd, ppb)																												
FIXTURE INFORMATION			7/16/2008			8/29/2008			9/9/2008			8/28/2012			11/7/2014			9/2/2015			9/20/2016			3/7/2019			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	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	hall outside cafeteria	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
02	B	gym				<1	<1	P				<1	<1	P				<1	<1	P				<1	<1	P	P	None
03	B	gym				<1	<1	P				<1	<1	P				<1	<1	P				<1	<1	P	P	None
04	B	bottle filler outside gym	<1	<1	P							<1	<1	P				<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	B	outside gym	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
06	B	outside office	1	1	P													<1	<1	P				<1	<1	P	P	None
07	B	hallway outside lounge	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
08	B	hallway, by room 160	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
09	B	hallway, outside library	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
10	B	hallway, by central wing	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
11	B	hallway, by women's restroom	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
12	B	hallway, at north wing	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
14	S	room 122, North, right	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
16	S	room 147, home ec. Room,	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
21	B	girls locker room				<1	<1	P				3	7					3	2	P							P	None
22	B	wellness center, by room 201B	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
23	S	nurse's office, rom 201G, treatment room	<1		P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
24	S	staff lounge (rm. 188)	<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
25	S	South kitchen wall, left	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
26	S	South kitchen wall, center	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
27	S	South kitchen wall, right	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
28	S	office workroom	<1	<1	P	<1	<1	P				<1	<1	P				<1	<1	P				<1	<1	P	P	None
29	S	nurse office, by room 201F	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
30	S	library	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
31	S	library office	<1	<1	P	<1	<1	P				<1	<1	P				<1	<1	P				<1	<1	P	P	None
32	S	room 178	<1	<1	P							<1	<1	P				<1	<1	P							P	None
33	S	room 122, North, left	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
34	S	room 122, South, left	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
35	S	room 122, South, right	<1	<1	P							<1	<1	P				<1	<1	P				<1	<1	P	P	None
36	S	band room							<1	<1	P	<1	1	P										<1	<1	P	P	None
37	S	CE lunch room																<1	<1	P				<1	<1	P	P	None
38	B	outside 233A																			<1	<1	P	<1	<1	P	P	None
39	S	room 167																			<1	<1	P	<1	<1	P	P	None
40	S	room 148																						<1	<1	P	P	None
41	S	room 149																						<1	<1	P	P	None
42	S	room 151																						<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			7/16/2008			8/29/2008			9/9/2008			8/28/2012			11/7/2014			9/2/2015			9/20/2016			3/7/2019			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	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	hall outside cafeteria	0.002	0.003	P							<0.002	<0.002	P				<0.002	<0.002	P				<0.002	<0.002	P	P	None	
02	B	gym				0.013	0.005	P				0.032	0.003	P				0.027	0.006	P				0.003	<0.002	P	P	None	
03	B	gym				0.022	0.005	P				0.05	0.003	P				0.019	0.004	P				0.015	0.004	P	P	None	
04	B	bottle filler outside gym	0.003	0.002	P							0.003	0.003	P				0.002	<0.002	P	0.002	<0.002	P	0.014	<0.002	P	P	None	
05	B	outside gym	<0.002	0.002	P							<0.002	<0.002	P				<0.002	<0.002	P				0.125	0.004	P	P	None	
06	B	outside office	0.078	0.014	P													0.07	0.05	P				0.141	0.02	P	P	None	
07	B	hallway outside lounge	0.016	0.005	P							0.017	0.003	P				0.015	0.005	P				0.011	0.003	P	P	None	
08	B	hallway, by room 160	0.121	0.037	P							0.176	0.062	P				0.129	0.074	P				0.11	0.07	P	P	None	
09	B	hallway, outside library	0.06	0.082	P							0.167	0.064	P				0.151	0.149	P				0.135	0.112	P	P	None	
10	B	hallway, by central wing	0.044	0.015	P							0.021	0.005	P				0.021	0.008	P				0.006	0.003	P	P	None	
11	B	hallway, by women's restroom	0.229	0.019	P							0.112	0.008	P				0.118	0.017	P				0.146	0.008	P	P	None	
12	B	hallway, at north wing	0.392	0.022	P							0.138	0.012	P				0.108	0.042	P				0.114	0.085	P	P	None	
14	S	room 122, North, right	0.056	0.004	P							0.037	0.005	P				0.006	<0.002	P				0.01	<0.002	P	P	None	
16	S	room 147, home ec. Room,	0.068	0.008	P							0.017	<0.002	P				0.006	<0.002	P				0.006	<0.002	P	P	None	
21	B	girls locker room				0.004	0.004	P				0.016	0.064	P				0.015	0.017	P							P	None	
22	B	wellness center, by room 201B	0.131	0.013	P							0.199	0.018	P				0.153	0.046	P				0.154	0.088	P	P	None	
23	S	nurse's office, rom 201G, treatment room	0.052		P							0.125	0.046	P				0.073	0.005	P				0.039	0.024	P	P	None	
24	S	staff lounge (rm. 188)	0.082	0.02	P	0.154	0.135	P				0.231	0.01	P	0.039	0.007	P	0.11	0.036	P				0.07	0.057	P	P	None	
25	S	South kitchen wall, left	0.014	0.015	P							0.024	0.004	P				0.006	0.02	P				0.009	0.009	P	P	None	
26	S	South kitchen wall, center	0.004	0.004	P							0.017	0.025	P				0.002	<0.002	P				<0.002	<0.002	P	P	None	
27	S	South kitchen wall, right	0.006	0.004	P							0.012	0.002	P				0.004	<0.002	P				<0.002	<0.002	P	P	None	
28	S	office workroom	0.034	0.019	P	0.007	0.005	P				0.027	0.002	P				0.041	0.002	P				0.006	<0.002	P	P	None	
29	S	nurse office, by room 201F	0.139	0.03	P							0.248	0.017	P				0.157	0.191	P				0.072	0.064	P	P	None	
30	S	library	0.009	0.005	P							0.017	<0.002	P				0.011	0.002	P				0.006	0.004	P	P	None	
31	S	library office	0.017	0.004	P	0.016	0.004	P				0.024	<0.002	P				0.014	0.003	P				0.006	0.004	P	P	None	
32	S	room 178	0.091	0.015	P							0.073	0.038	P				0.103	0.12	P							P	None	
33	S	room 122, North, left	0.029	0.004	P							0.019	0.002	P				0.015	<0.002	P				0.004	<0.002	P	P	None	
34	S	room 122, South, left	0.008	0.003	P							0.014	<0.002	P				0.002	<0.002	P				<0.002	<0.002	P	P	None	
35	S	room 122, South, right	0.004	0.005	P							0.015	<0.002	P				0.008	<0.002	P				<0.002	<0.002	P	P	None	
36	S	band room							0.105	0.005	P	0.054	0.012	P											1.54	0.052		F	PS
37	S	CE lunch room																0.006	<0.002	P				0.006	<0.002	P	P	None	
38	B	outside 233A																			0.144	0.074	P	0.071	0.031	P	P	None	
39	S	room 167																			0.39	0.132	P	0.184	0.212	P	P	None	
40	S	room 148																						<0.002	<0.002	P	P	None	
41	S	room 149																						0.026	0.003	P	P	None	
42	S	room 151																						0.002	<0.002	P	P	None	

Table 5. Iron Test Results

Test Results (Iron/Fe, ppm)												
FIXTURE INFORMATION			7/16/2008		8/28/2012		9/2/2015		3/7/2019		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	hall outside cafeteria										
02	B	gym										
03	B	gym									P	None
04	B	bottle filler outside gym										
05	B	outside gym										
06	B	outside office							0.056	P	P	None
07	B	hallway outside lounge									P	None
08	B	hallway, by room 160						0.064	P		P	None
09	B	hallway, outside library									P	None
10	B	hallway, by central wing			0.066	P					P	None
11	B	hallway, by women's restroom									P	None
12	B	hallway, at north wing	<0.05	P							P	None
14	S	room 122, North, right	<0.05	P							P	None
16	S	room 147, home ec. Room,							<0.05	P	P	None
21	B	girls locker room										
22	B	wellness center, by room 201B									P	None
23	S	nurse's office, rom 201G, treatment room									P	None
24	S	staff lounge (rm. 188)						0.11	P		P	None
25	S	South kitchen wall, left			0.273	P					P	None
26	S	South kitchen wall, center	0.066	P							P	None
27	S	South kitchen wall, right										
28	S	office workroom	0.059	P	0.099	P			0.151	P	P	None
29	S	nurse office, by room 201F										
30	S	library										
31	S	library office	0.062	P							P	None
32	S	room 178						0.132	P		P	None
33	S	room 122, North, left										
34	S	room 122, South, left							0.06	P	P	None
35	S	room 122, South, right										
36	S	band room										
37	S	CE lunch room										
38	B	outside 233A										
39	S	room 167							<0.05	P	P	None
40	S	room 148										
41	S	room 149										
42	S	room 151										

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	outside spigot on north (inside) wing (see map)	Arsenic	02-Sep-15	2 ppb	P
00	SE	outside spigot on north (inside) wing (see map)	Cadmium	07-Mar-19	1 ppb	P
00	SE	outside spigot on north (inside) wing (see map)	Chlorine	12-May-04	0.2 ppm	P
00	SE	outside spigot on north (inside) wing (see map)	Copper	07-Mar-19	<0.002 ppm	P
00	SE	outside spigot on north (inside) wing (see map)	E coli	12-May-04	<1 Colonies	P
00	SE	outside spigot on north (inside) wing (see map)	Iron	07-Mar-19	<0.05 ppm	P
00	SE	outside spigot on north (inside) wing (see map)	Lead	07-Mar-19	1 ppb	P
00	SE	outside spigot on north (inside) wing (see map)	Total Coliforms	07-Nov-08	<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.