

Seattle Public Schools
Drinking Water Quality Program

Results of Water Quality Testing
for
Blaine Elementary School

Updated March 20, 2019

General Information:

Plumbing piping materials: mainly galvanized steel

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 fixtures 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 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 outside room 133	P	None	P	None	P	None	P	None	Yes
02	B	hallway betw boys & girls near 136 & 137	P	None	P	None	P	None	P	None	Yes
03	B	hallway betw boys & girls betw 125 & 127, left	P	None	P	None	P	None	P	None	Yes
04	B	hallway near 142	P	None	P	None	P	None	P	None	Yes
05	B	hallway near stage, right (E)	P	None	P	None	P	None	P	None	Yes
06	B	hallway outside 122	P	None	P	None	P	None	P	None	Yes
07	B	hallway outside rooms 104, 105 & 118	P	None	P	None	P	None	P	None	Yes
08	B	in gym	P	None	P	None	P	None	P	None	Yes
09	B	in gym	P	None	P	None	P	None	P	None	Yes
10	B	outside gym, left	P	None	P	None	P	None	P	None	Yes
11	B	outside gym, right	P	None	P	None	P	None	P	None	Yes
12	B	hallway near stage, left (W)	P	None	P	None	P	None	P	None	Yes
13	B	hallway, W of 03, right	P	None	P	None	P	None	P	None	Yes
15	S	nurses office	P	None	P	None	P	None	P	None	Yes
17	S	kitchen	P	None	P	None	P	None	P	None	Yes
18	S	kitchen - north wall	P	None	P	None	P	None	P	None	Yes
21	S	room 138B	P	None			P	None	P	None	Yes
22	S	room 139A	P	None	P	None	P	None	P	None	Yes
23	S	room 140A	P	None	P	None	P	None	P	None	Yes
25	S	Mr. Anderson's room	P	None	P	None	P	None	P	None	Yes
26	S	copy room	P	None	P	None	P	None	P	None	Yes
27	S	room 134 A	P	None	P	None	P	None	P	None	Yes
28	S	room 134B	P	None	P	None	P	None	P	None	Yes
29	S	room 137	P	None	P	None	P	None	P	None	Yes
31	S	room 139B	P	None	P	None	P	None	P	None	Yes
32	S	room 140B	P	None	P	None	P	None	P	None	Yes
33	S	room 136	P	None	P	None	P	None	P	None	Yes
34	S	room 135	P	None	P	None	P	None	P	None	Yes
35	S	room 133B	P	None	P	None	P	None	P	None	Yes
36	S	room 133A	P	None	P	None	P	None	P	None	Yes
37	S	room 127	P	None	P	None	P	None	P	None	Yes
40	S	CE office	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

Test Results (Lead/Pb, ppb)																									
FIXTURE INFORMATION			9/16/2009			3/2/2010			12/19/2012			5/9/2014			6/9/2014			3/4/2016			1/17/2019			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	Pass/Fail	Status
01	B	hallway outside room 133	12	3		6	2	P	3	<1	P										2		P	P	None
02	B	hallway betw boys & girls near 136 & 137	<1	<1	P				<1	<1	P							2	<1	P	<1	<1	P	P	None
03	B	hallway betw boys & girls betw 125 & 127, left	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
04	B	hallway near 142	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
05	B	hallway near stage, right (E)	3	1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
06	B	hallway outside 122	6	6	P				19	10								2	1	P	2	2	P	P	None
07	B	hallway outside rooms 104, 105 & 118	2	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
08	B	in gym							4	2	P							<1	<1	P	<1	<1	P	P	None
09	B	in gym	3	4	P				<1	<1	P							2	<1	P	3	1	P	P	None
10	B	outside gym, left	<1	<1	P				<1		P							<1	<1	P	<1	<1	P	P	None
11	B	outside gym, right	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
12	B	hallway near stage, left (W)	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
13	B	hallway, W of 03, right	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
15	S	nurses office	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
17	S	kitchen	4	1	P							4	<1	P	6	1	P	2	1	P	<1	1	P	P	None
18	S	kitchen - north wall	1	<1	P							<1	<1	P	<1	1	P	<1	<1	P	<1	<1	P	P	None
21	S	room 138B	7	2	P				4	<1	P							8	3	P	2	<1	P	P	None
22	S	room 139A	10	1	P				1	1	P							1	<1	P	1	<1	P	P	None
23	S	room 140A	5	2	P				2	<1	P							<1	<1	P	<1	<1	P	P	None
25	S	Mr. Anderson's room	4	3	P				2	<1	P							<1	<1	P	<1	<1	P	P	None
26	S	copy room	3	<1	P				1	1	P							1	1	P	1	2	P	P	None
27	S	room 134 A	10	2	P				3	3	P							2	1	P	2	<1	P	P	None
28	S	room 134B	4	2	P				3	5	P							2	2	P	2	1	P	P	None
29	S	room 137							7	8	P							2	5	P	4	7	P	P	None
31	S	room 139B	7	1	P				3	2	P							<1	1	P	<1	<1	P	P	None
32	S	room 140B	7	3	P				3	2	P							2	<1	P	<1	<1	P	P	None
33	S	room 136	1	<1	P				1	<1	P										<1	<1	P	P	None
34	S	room 135	5	3	P				3	<1	P							1	<1	P	2	<1	P	P	None
35	S	room 133B	43	1		6	<1	P	2	<1	P							3	1	P	3	<1	P	P	None
36	S	room 133A	7	<1	P				5	2	P							2	<1	P	2	<1	P	P	None
37	S	room 127	5	5	P				1	<1	P							<1	<1	P	<1	<1	P	P	None
40	S	CE office																			1	<1	P	P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			9/16/2009			12/19/2012			5/9/2014			6/9/2014			3/4/2016			1/17/2019			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	hallway outside room 133	4	<1	P	2	<1	P							<1		P	P		P	P	None
02	B	hallway betw boys & girls near 136 & 137	<1	<1	P	<1	<1	P							1	1	P	<1	<1	P	P	None
03	B	hallway betw boys & girls betw 125 & 127, left	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
04	B	hallway near 142	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
05	B	hallway near stage, right (E)	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
06	B	hallway outside 122	2	1	P	5	3	P							2	2	P	2	2	P	P	None
07	B	hallway outside rooms 104, 105 & 118	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
08	B	in gym				5	6								<1	<1	P	<1	<1	P	P	None
09	B	in gym	3	4	P	<1	<1	P							2	3	P	3	3	P	P	None
10	B	outside gym, left	<1	<1	P	<1		P							<1	<1	P	<1	<1	P	P	None
11	B	outside gym, right	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
12	B	hallway near stage, left (W)	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	Done
13	B	hallway, W of 03, right	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
15	S	nurses office	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
17	S	kitchen	3	<1	P				<1	<1	P	2	1	P	<1	<1	P	<1	<1	P	P	None
18	S	kitchen - north wall	<1	<1	P				<1	<1	P	<1	1	P	<1	<1	P	<1	<1	P	P	None
21	S	room 138B	3	4	P	4	8								4	5	P				F	None
22	S	room 139A	<1	3	P	2	3	P							<1	1	P	1	2	P	P	None
23	S	room 140A	<1	<1	P	2	3	P							<1	1	P	<1	<1	P	P	None
25	S	Mr. Anderson's room	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
26	S	copy room	2	<1	P	2	2	P							2	1	P	2	2	P	P	None
27	S	room 134 A	2	1	P	2	3	P							1	<1	P	1	<1	P	P	None
28	S	room 134B	2	2	P	3	5	P							2	3	P	2	4	P	P	None
29	S	room 137				3	3	P							<1	2	P	2	2	P	P	None
31	S	room 139B	<1	1	P	1	7								<1	5	P	<1	2	P	P	None
32	S	room 140B	<1	3	P	2	4	P							1	1	P	1	2	P	P	None
33	S	room 136	<1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
34	S	room 135	2	2	P	3	<1	P							1	<1	P	1	<1	P	P	None
35	S	room 133B	5	<1	P	2	<1	P							2	1	P	1	<1	P	P	None
36	S	room 133A	2	<1	P	2	2	P							<1	<1	P	1	1	P	P	None
37	S	room 127	1	<1	P	<1	<1	P							<1	<1	P	<1	<1	P	P	None
40	S	CE office													<1	<1	P			P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			9/16/2009			12/19/2012			5/9/2014			6/9/2014			3/4/2016			1/17/2019			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	hallway outside room 133	0.022	0.011	P	0.014	0.006	P										0.028		P	P	None
02	B	hallway betw boys & girls near 136 & 137	<0.002	<0.002	P	<0.002	<0.002	P							0.008	0.003	P	0.004	<0.002	P	P	None
03	B	hallway betw boys & girls betw 125 & 127, left	0.012	0.005	P	0.136	0.006	P							0.051	0.003	P	0.064	0.01	P	P	None
04	B	hallway near 142	0.006	<0.002	P	<0.002	<0.002	P							0.004	<0.002	P	<0.002	<0.002	P	P	None
05	B	hallway near stage, right (E)	0.342	0.01	P	0.102	0.015	P							0.047	0.004	P	0.066	0.006	P	P	None
06	B	hallway outside 122	0.004	0.005	P	0.002	<0.002	P							0.005	0.002	P	0.006	0.003	P	P	None
07	B	hallway outside rooms 104, 105 & 118	<0.002	<0.002	P	0.003	<0.002	P							0.004	<0.002	P	0.004	<0.002	P	P	None
08	B	in gym				0.014	0.003	P							<0.002	<0.002	P	0.004	<0.002	P	P	None
09	B	in gym	0.011	0.006	P	<0.002	<0.002	P							0.008	<0.002	P	0.01	0.003	P	P	None
10	B	outside gym, left	0.003	<0.002	P	<0.002		P							<0.002	<0.002	P	0.011	<0.002	P	P	None
11	B	outside gym, right	0.002	<0.002	P	<0.002	<0.002	P							<0.002	<0.002	P	<0.002	<0.002	P	P	None
12	B	hallway near stage, left (W)	0.259	0.012	P	0.183	0.009	P							0.104	0.026	P	0.077	0.007	P	P	None
13	B	hallway, W of 03, right	0.007	0.003	P	0.046	0.005	P							0.04	0.002	P	0.062	0.011	P	P	None
15	S	nurses office	<0.002	<0.002	P	0.006	<0.002	P							0.003	<0.002	P	0.003	<0.002	P	P	None
17	S	kitchen	0.012	0.003	P				0.019	<0.002	P	0.013	0.003	P	0.011	0.002	P	0.013	0.005	P	P	None
18	S	kitchen - north wall	0.007	0.002	P				<0.002	0.006	P	0.005	<0.002	P	0.004	<0.002	P	0.003	0.002	P	P	None
21	S	room 138B	0.011	0.002	P	0.017	0.002	P							0.019	0.009	P	0.015	0.005	P	P	None
22	S	room 139A	0.241	0.018	P	0.302	0.268	P							0.194	0.186	P	0.247	0.294	P	P	None
23	S	room 140A	0.298	0.312	P	0.448	0.423	P							0.226	0.188	P	0.293	0.302	P	P	None
25	S	Mr. Anderson's room	0.1	0.139	P	0.437	0.393	P							0.321	0.209	P	0.44	0.273	P	P	None
26	S	copy room	0.002	<0.002	P	0.003	0.003	P							0.002	<0.002	P	0.004	0.003	P	P	None
27	S	room 134 A	0.038	0.002	P	0.077	0.005	P							0.034	0.006	P	0.108	0.005	P	P	None
28	S	room 134B	0.008	0.003	P	0.086	0.006	P							0.172	0.007	P	0.264	0.009	P	P	None
29	S	room 137				0.004	0.003	P							0.008	<0.002	P	0.015	0.003	P	P	None
31	S	room 139B	0.244	0.149	P	0.311	0.052	P							0.152	0.03	P	0.323	0.263	P	P	None
32	S	room 140B	0.269	0.012	P	0.325	0.105	P							0.136	0.008	P	0.176	0.085	P	P	None
33	S	room 136	0.003	0.002	P	0.009	<0.002	P										0.006	<0.002	P	P	None
34	S	room 135	0.005	0.002	P	0.002	<0.002	P							<0.002	<0.002	P	0.003	0.005	P	P	None
35	S	room 133B	0.007	<0.002	P	0.002	<0.002	P							<0.002	<0.002	P	0.004	0.006	P	P	None
36	S	room 133A	0.006	0.002	P	0.003	<0.002	P							0.002	<0.002	P	0.003	0.002	P	P	None
37	S	room 127	0.024	0.013	P	0.08	0.054	P							0.093	0.018	P	0.141	0.113	P	P	None
40	S	CE office																0.022	0.035	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			9/16/2009		12/19/2012		5/9/2014		6/9/2014			3/4/2016		1/17/2019		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
01	B	hallway outside room 133														P	None
02	B	hallway betw boys & girls near 136 & 137														P	None
03	B	hallway betw boys & girls betw 125 & 127, left														P	None
04	B	hallway near 142			<0.05	P										P	None
05	B	hallway near stage, right (E)										0.241	P			P	None
06	B	hallway outside 122														P	None
07	B	hallway outside rooms 104, 105 & 118												<0.05	P	P	None
08	B	in gym														P	None
09	B	in gym														P	None
10	B	outside gym, left														P	None
11	B	outside gym, right														P	None
12	B	hallway near stage, left (W)			0.211	P										P	None
13	B	hallway, W of 03, right														P	None
15	S	nurses office														P	None
17	S	kitchen					0.168	P	0.173	0.309	P					P	None
18	S	kitchen - north wall					0.08	P						0.124	P	P	None
21	S	room 138B														P	None
22	S	room 139A														P	None
23	S	room 140A														P	None
25	S	Mr. Anderson's room												0.234	P	P	None
26	S	copy room			0.192	P										P	None
27	S	room 134 A										0.126	P			P	None
28	S	room 134B														P	None
29	S	room 137														P	None
31	S	room 139B														P	None
32	S	room 140B	0.126	P												P	None
33	S	room 136														P	None
34	S	room 135												0.115	P	P	None
35	S	room 133B			0.264	P										P	None
36	S	room 133A														P	None
37	S	room 127										0.071	P			P	None
40	S	CE office															Sample

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	boiler room	Arsenic	17-Jan-19	2 ppb	P
00	SE	boiler room	Cadmium	17-Jan-19	1 ppb	P
00	SE	boiler room	Chlorine	30-Apr-04	0.3 ppm	P
00	SE	boiler room	Copper	17-Jan-19	0.032 ppm	P
00	SE	boiler room	E coli	30-Apr-04	<1 Colonies	P
00	SE	boiler room	Iron	17-Jan-19	0.07 ppm	P
00	SE	boiler room	Lead	17-Jan-19	1 ppb	P
00	SE	boiler room	Total Coliforms	16-Sep-09	<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.