

**Seattle Public Schools  
Drinking Water Quality Program**

**Results of Water Quality Testing  
for  
Mann**

Revised September 3, 2019

**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:

All sources meet the policy criteria.

Follow-up monitoring: Will be performed in 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 dicsabled,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			CURRENT STATUS								OK?
			LEAD		CADMIUM		COPPER		IRON		
Fixture ID	Type	Location	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Yes/No/Status
01	B	basement Hallway	P	None	P	None	P	None			Yes
02	BF	basement hallway, bottle filler	P	None	P	None	P	None			Yes
03	S	kitchen, double sink, left	P	None	P	None	P	None			Yes
04	S	kitchen, double sink, right	P	None	P	None	P	None			Yes
05	S	kitchen	P	None	P	None	P	None	P	None	Yes
06	K	kithcen, kettle	P	None	P	None	P	None			Yes
07	B	first floor hallway, outside restroom	P	None	P	None	P	None			Yes
08	S	office work room 110	P	None	P	None	P	None			Yes
09	S	nurse office 110B	P	None	P	None	P	None			Yes
10	S	staff workroom 108	P	None	P	None	P	None	P	None	Yes
11	B	first floor hallway, outside 105	P	None	P	None	P	None			Yes
12	S	room 104, South wall, left	P	None	P	None	P	None			Yes
13	S	room 104, south wall, right	P	None	P	None	P	None			Yes
14	S	room 104, island, east	P	None	P	None	P	None			Yes
15	S	room 104, island, west	P	None	P	None	P	None	P	None	Yes
20	B	2nd floor hallway, outside 214	P	None	P	None	P	None	P	None	Yes
21	B	2nd floor hallway, outside 207	P	None	P	None	P	None	P	None	Yes
22	S	room 201	P	None	P	None	P	None			Yes
23	S	room 202, left	P	None	P	None	P	None			Yes
24	S	room 202, right	P	None	P	None	P	None			Yes
25	S	2nd floor hallway, outside 211A	P	None	P	None	P	None	P	None	Yes

Table 2. Lead Test Results

Test Results (Lead/Pb, ppb)																	
FIXTURE INFORMATION			8/12/2015			9/1/2015		9/11/2015		3/28/2019			8/29/2019			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Pass/Fail	1st Draw	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	basement Hallway	<1	<1	P					<1	<1	P				P	None
02	BF	basement hallway, bottle filler	<1	<1	P					<1	<1	P				P	None
03	S	kitchen, double sink, left	<1	<1	P					<1	<1	P				P	None
04	S	kitchen, double sink, right	<1	<1	P					<1	<1	P				P	None
05	S	kitchen	<1	<1	P					<1	<1	P				P	None
06	K	kithcen, kettle	2	<1	P					<1	<1	P				P	None
07	B	first floor hallway, outside restroom	<1	<1	P					<1	<1	P				P	None
08	S	office work room 110	<1	<1	P					<1	<1	P				P	None
09	S	nurse office 110B	<1	<1	P					<1	<1	P				P	None
10	S	staff workroom 108	<1	<1	P					<1	<1	P				P	None
11	B	first floor hallway, outside 105	<1	<1	P					<1	<1	P				P	None
12	S	room 104, South wall, left	10	<1	P					<1	<1	P				P	None
13	S	room 104, south wall, right	12	<1		7	P	7	P							P	None
14	S	room 104, island, east	5	<1	P					8	<1	P				P	None
15	S	room 104, island, west	18	2		13		13		3	<1	P	1	1	P	P	None
20	B	2nd floor hallway, outside 214	<1	<1	P					<1	<1	P				P	None
21	B	2nd floor hallway, outside 207	<1	<1	P					<1	<1	P				P	None
22	S	room 201	<1	<1	P					<1	<1	P				P	None
23	S	room 202, left	5	<1	P					<1	<1	P				P	None
24	S	room 202, right	3	<1	P					<1	<1	P				P	None
25	S	2nd floor hallway, outside 211A	<1	<1	P					<1	<1	P				P	None

Table 3. Cadmium Test Results

Test Results (Cadmium/Cd, ppb)																			
FIXTURE INFORMATION			8/12/2015			9/1/2015			9/11/2015			9/23/2015			3/28/2019			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	Pass/Fail	Status
01	B	basement Hallway	<1	<1	P										<1	<1	P	P	None
02	BF	basement hallway, bottle filler	<1	<1	P										<1	<1	P	P	None
03	S	kitchen, double sink, left	<1	<1	P										<1	<1	P	P	None
04	S	kitchen, double sink, right	<1	<1	P										<1	<1	P	P	None
05	S	kitchen	<1	<1	P										<1	<1	P	P	None
06	K	kithcen, kettle	10	<1		7	<1		7	<1		<1	<1	P	<1	<1	P	P	None
07	B	first floor hallway, outside restroom	<1	<1	P										<1	<1	P	P	None
08	S	office work room 110	<1	<1	P										<1	<1	P	P	None
09	S	nurse office 110B	8	<1		<1	<1	P	<1	<1	P				<1	<1	P	P	None
10	S	staff workroom 108	<1	<1	P										<1	<1	P	P	None
11	B	first floor hallway, outside 105	<1	<1	P										<1	<1	P	P	None
12	S	room 104, South wall, left	<1	<1	P										<1	<1	P	P	None
13	S	room 104, south wall, right	<1	<1	P													P	None
14	S	room 104, island, east	<1	<1	P										<1	<1	P	P	None
15	S	room 104, island, west	<1	<1	P										<1	<1	P	P	None
20	B	2nd floor hallway, outside 214	<1	<1	P										<1	<1	P	P	None
21	B	2nd floor hallway, outside 207	<1	<1	P										<1	<1	P	P	None
22	S	room 201	3	<1	P										<1	<1	P	P	None
23	S	room 202, left	<1	<1	P										<1	<1	P	P	None
24	S	room 202, right	<1	<1	P										<1	<1	P	P	None
25	S	2nd floor hallway, outside 211A	<1	<1	P										<1	<1	P	P	None

Table 4. Copper Test Results

Test Results (Copper/Cu, ppm)										
FIXTURE INFORMATION			8/12/2015			3/28/2019			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	basement Hallway	0.181	0.043	P	0.14	0.156	P	P	None
02	BF	basement hallway, bottle filler	0.139	0.048	P	0.151	0.165	P	P	None
03	S	kitchen, double sink, left	0.1	0.084	P	0.27	0.129	P	P	None
04	S	kitchen, double sink, right	0.11	0.174	P	0.303	0.117	P	P	None
05	S	kitchen	0.054	0.056	P	0.119	0.117	P	P	None
06	K	kithcen, kettle	0.27	0.07	P	0.2	0.117	P	P	None
07	B	first floor hallway, outside restroom	0.228	0.037	P	0.195	0.182	P	P	None
08	S	office work room 110	0.146	0.228	P	0.217	0.163	P	P	None
09	S	nurse office 110B	0.122	0.176	P	0.258	0.113	P	P	None
10	S	staff workroom 108	0.128	0.16	P	0.242	0.223	P	P	None
11	B	first floor hallway, outside 105	0.207	0.164	P	0.264	0.197	P	P	None
12	S	room 104, South wall, left	0.231	0.192	P	0.327	0.235	P	P	None
13	S	room 104, south wall, right	0.193	0.196	P				P	None
14	S	room 104, island, east	0.157	0.196	P	0.362	0.242	P	P	None
15	S	room 104, island, west	0.246	0.174	P	0.256	0.202	P	P	None
20	B	2nd floor hallway, outside 214	0.244	0.047	P	0.257	0.262	P	P	None
21	B	2nd floor hallway, outside 207	0.188	0.216	P	0.29	0.35	P	P	None
22	S	room 201	0.154	0.178	P	0.27	0.278	P	P	None
23	S	room 202, left	0.279	0.195	P	0.236	0.253	P	P	None
24	S	room 202, right	0.156	0.194	P	0.245	0.204	P	P	None
25	S	2nd floor hallway, outside 211A	0.187	0.192	P	0.326	0.298	P	P	None

Table 5. Iron Test Results

Test Results (Iron/Fe, ppm)								
FIXTURE INFORMATION			8/12/2015		3/28/2019		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
01	B	basement Hallway						
02	BF	basement hallway, bottle filler						
03	S	kitchen, double sink, left						
04	S	kitchen, double sink, right						
05	S	kitchen	<0.05	P	<0.05	P	P	None
06	K	kithcen, kettle						
07	B	first floor hallway, outside restroom						
08	S	office work room 110						
09	S	nurse office 110B						
10	S	staff workroom 108	<0.05	P	<0.05	P	P	None
11	B	first floor hallway, outside 105						
12	S	room 104, South wall, left						
13	S	room 104, south wall, right						
14	S	room 104, island, east						
15	S	room 104, island, west	<0.05	P	<0.05	P	P	None
20	B	2nd floor hallway, outside 214			<0.05	P	P	None
21	B	2nd floor hallway, outside 207	<0.05	P			P	None
22	S	room 201						
23	S	room 202, left						
24	S	room 202, right						
25	S	2nd floor hallway, outside 211A			<0.05	P	P	None

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, B06	Arsenic	12-Aug-15	2 ppb	P
00	SE	boiler room, B06	Cadmium	28-Mar-19	1 ppb	P
00	SE	boiler room, B06	Copper	28-Mar-19	0.085 ppm	P
00	SE	boiler room, B06	E coli	07-Oct-04	<1 Colonies	P
00	SE	boiler room, B06	Iron	28-Mar-19	<0.05 ppm	P
00	SE	boiler room, B06	Lead	28-Mar-19	1 ppb	P
00	SE	boiler room, B06	Total Coliforms	12-Aug-15	<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.