

**Seattle Public Schools  
Drinking Water Quality Program**

**Results of Water Quality Testing  
for  
LOWELL ELEMENTARY SCHOOL**

Updated January 13, 2020

**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.*

Status:

Policy Criteria:

All sources meet the policy criteria.

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:**

<b>Legend</b>	
<b>Symbol</b>	<b>Definition</b>
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
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	S/B	admin work room	P	None	P	None	P	None	P	None	Yes
02	S	nurses office	P	None	P	None	P	None	P	None	Yes
03	BF	hall / near teachers room	P	None	P	None	P	None	P	None	Yes
05	S	kitchen - west wall, left	P	None	P	None	P	None	P	None	Yes
06	S	kitchen - west wall, right	P	None	P	None	P	None	P	None	Yes
07	B	hall / 216	P	None	P	None	P	None	P	None	Yes
08	S	kitchen - north wall	P	None	P	None	P	None	P	None	Yes
09	S	kitchen - north wall	P	None	P	None	P	None	P	None	Yes
10	S/B	room 207	P	None	P	None	P	None	P	None	Yes
12	S/B	room 220	P	None	P	None	P	None	P	None	Yes
13	B	hall / 221	P	None	P	None	P	None	P	None	Yes
13A	B	hall / 221	P	None	P	None	P	None			Yes
14	S/B	room 109	P	None	P	None	P	None	P	None	Yes
15	S/B	room 108	P	None	P	None	P	None	P	None	Yes
16	B	Corr / 106	P	None	P	None	P	None	P	None	Yes
17	S/B	room 102	P	None	P	None	P	None			Yes
21	S/B	room 305	P	None	P	None	P	None	P	None	Yes
22	B/S	room 221	P	None	P	None	P	None	P	None	Yes
23	S/B	room 302	P	None	P	None	P	None			Yes
24	S/B	room 301	P	None	P	None	P	None	P	None	Yes
29	S/B	room 104	P	None	P	None	P	None	P	None	Yes
30	S/B	room 105	P	None	P	None	P	None	P	None	Yes
32	B	hall, near 303.	P	None	P	None	P	None	P	None	Yes
33	S/B	room 210	P	None	P	None	P	None			Yes
35	S	teachers lounge	P	None	P	None	P	None	P	None	Yes
36	S	room 101A	P	None	P	None	P	None			Yes
37	S	room 101B	P	None	P	None	P	None			Yes
42	S/B	room 103	P	None	P	None	P	None	P	None	Yes
43	S/B	room 106	P	None	P	None	P	None	P	None	Yes
44	S/B	room 107	P	None	P	None	P	None	P	None	Yes
45	S	storage room	P	None	P	None	P	None			Yes
46	S/B	room 304	P	None	P	None	P	None	P	None	Yes
47	S/B	room 219	P	None	P	None	P	None	P	None	Yes
51	S/B	room 201	P	None	P	None	P	None	P	None	Yes
52	S/B	room 202	P	None	P	None	P	None	P	None	Yes
53	S/B	room 203	P	None	P	None	P	None			Yes
54	S/B	room 204	P	None	P	None	P	None	P	None	Yes
55	S/B	room 216	P	None	P	None	P	None	P	None	Yes
56	S/B	room 215	P	None	P	None	P	None	P	None	Yes
57	S/B	room 214	P	None	P	None	P	None	P	None	Yes
58	S	room 213 counselor office	P	None	P	None	P	None			Yes
59	S/B	room 212	P	None	P	None	P	None			Yes
60	S/B	room 211	P	None	P	None	P	None			Yes
61	S/B	room 208	P	None	P	None	P	None			Yes
62	S/B	room 206	P	None	P	None	P	None			Yes
63	S/B	room 205	P	None	P	None	P	None			Yes

70	S/B	work room in 214	P	None	P	None	P	None			Yes
75	S	ROOM 303	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			8/19/2009			10/11/2012			3/3/2016			11/14/2019			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	Pass/Fail	Status
01	S/B	admin work room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
02	S	nurses office	3	1	P	3	<1	P	<1	<1	P				P	None
03	BF	hall / near teachers room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	S	kitchen - west wall, left	6	<1	P	2	<1	P	<1	<1	P	<1	<1	P	P	None
06	S	kitchen - west wall, right	6	<1	P	5	<1	P	<1	<1	P	<1	<1	P	P	None
07	B	hall / 216	3	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	S	kitchen - north wall	6	1	P	16	<1		3	<1	P	<1	<1	P	P	None
09	S	kitchen - north wall	2	1	P	1	<1	P	1	<1	P	<1	<1	P	P	None
10	S/B	room 207	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	S/B	room 220				<1	<1	P	<1	<1	P	<1	<1	P	P	None
13	B	hall / 221				<1	<1	P	<1	<1	P	<1	<1	P	P	None
13A	B	hall / 221				<1	<1	P	<1	<1	P				P	None
14	S/B	room 109				1	<1	P	<1	<1	P	<1	<1	P	P	None
15	S/B	room 108				1	<1	P	<1	<1	P	<1	<1	P	P	None
16	B	Corr / 106				<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	S/B	room 102				<1	<1	P	<1	<1	P	<1	<1	P	P	None
21	S/B	room 305				<1	<1	P	<1	<1	P	<1	<1	P	P	None
22	B/S	room 221				<1	<1	P	<1	<1	P	1	<1	P	P	None
23	S/B	room 302							<1	<1	P	<1	<1	P	P	None
24	S/B	room 301				2	<1	P	<1	<1	P	<1	<1	P	P	None
29	S/B	room 104							<1	<1	P	<1	<1	P	P	None
30	S/B	room 105				<1	<1	P	<1	<1	P	<1	<1	P	P	None
32	B	hall, near 303.				<1	<1	P	<1	<1	P	<1	<1	P	P	None
33	S/B	room 210	2	1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
35	S	teachers lounge				<1	<1	P	<1	<1	P	<1	<1	P	P	None
36	S	room 101A							1	<1	P	<1	<1	P	P	None
37	S	room 101B							<1	<1	P	<1	<1	P	P	None
42	S/B	room 103				<1	<1	P	<1	<1	P	<1	<1	P	P	None
43	S/B	room 106				<1	<1	P	<1	<1	P	<1	<1	P	P	None
44	S/B	room 107				15	2		<1	<1	P	<1	<1	P	P	None
45	S	storage room				5	1	P	4	<1	P	<1	<1	P	P	None
46	S/B	room 304				<1	<1	P	<1	<1	P	<1	<1	P	P	None
47	S/B	room 219				<1	<1	P	<1	<1	P	<1	<1	P	P	None
51	S/B	room 201	2	1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
52	S/B	room 202	2	1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
53	S/B	room 203	2	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
54	S/B	room 204	2	<1	P	<1	<1	P	<1	<1	P	6	1	P	P	None
55	S/B	room 216	4	1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
56	S/B	room 215	2	1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
57	S/B	room 214	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
58	S	room 213 counselor office	2	<1	P	2	<1	P	2	<1	P	<1	<1	P	P	None
59	S/B	room 212	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
60	S/B	room 211	1	<1	P	<1	<1	P	<1	<1	P	2	<1	P	P	None
61	S/B	room 208	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
62	S/B	room 206	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
63	S/B	room 205	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
70	S/B	work room in 214							<1	<1	P	<1	<1	P	P	None
75	S	ROOM 303										<1	<1	P	P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			8/19/2009			10/11/2012			3/3/2016			11/14/2019			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	Pass/Fail	Status
01	S/B	admin work room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
02	S	nurses office	<1	<1	P	<1	<1	P	<1	<1	P				P	None
03	BF	hall / near teachers room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	S	kitchen - west wall, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
06	S	kitchen - west wall, right	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
07	B	hall / 216	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	S	kitchen - north wall	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
09	S	kitchen - north wall	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
10	S/B	room 207	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	S/B	room 220				<1	<1	P	<1	<1	P	<1	<1	P	P	None
13	B	hall / 221				<1	<1	P	<1	<1	P	<1	<1	P	P	None
13A	B	hall / 221				<1	<1	P	<1	<1	P				P	None
14	S/B	room 109				<1	<1	P	<1	<1	P	<1	<1	P	P	None
15	S/B	room 108				<1	<1	P	<1	<1	P	<1	<1	P	P	None
16	B	Corr / 106				<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	S/B	room 102				<1	<1	P	<1	<1	P	<1	<1	P	P	None
21	S/B	room 305				<1	<1	P	<1	<1	P	<1	<1	P	P	None
22	B/S	room 221				<1	<1	P	<1	<1	P	<1	<1	P	P	None
23	S/B	room 302							<1	<1	P	<1	<1	P	P	None
24	S/B	room 301				<1	<1	P	<1	<1	P	<1	<1	P	P	None
29	S/B	room 104							<1	<1	P	<1	<1	P	P	None
30	S/B	room 105				<1	<1	P	<1	<1	P	<1	<1	P	P	None
32	B	hall, near 303.				<1	<1	P	<1	<1	P	<1	<1	P	P	None
33	S/B	room 210	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
35	S	teachers lounge				<1	<1	P	<1	<1	P	<1	<1	P	P	None
36	S	room 101A							<1	<1	P	<1	<1	P	P	None
37	S	room 101B							<1	<1	P	<1	<1	P	P	None
42	S/B	room 103				<1	<1	P	<1	<1	P	<1	<1	P	P	None
43	S/B	room 106				<1	<1	P	<1	<1	P	<1	<1	P	P	None
44	S/B	room 107				<1	<1	P	<1	<1	P	<1	<1	P	P	None
45	S	storage room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
46	S/B	room 304				<1	<1	P	<1	<1	P	<1	<1	P	P	None
47	S/B	room 219				<1	<1	P	<1	<1	P	<1	<1	P	P	None
51	S/B	room 201	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
52	S/B	room 202	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
53	S/B	room 203	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
54	S/B	room 204	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
55	S/B	room 216	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
56	S/B	room 215	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
57	S/B	room 214	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
58	S	room 213 counselor office	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
59	S/B	room 212	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
60	S/B	room 211	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
61	S/B	room 208	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
62	S/B	room 206	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
63	S/B	room 205	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
70	S/B	work room in 214							<1	<1	P	<1	<1	P	P	None
75	S	ROOM 303										<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			8/19/2009			10/11/2012			3/3/2016			11/14/2019			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	Pass/Fail	Status
01	S/B	admin work room				0.48	0.419	P	0.1	0.1	P	0.145	0.117	P	P	None
02	S	nurses office	0.834	0.836	P	0.699	0.635	P	0.168	0.116	P				P	None
03	BF	hall / near teachers room				0.908	0.844	P	0.211	0.207	P	0.221	0.117	P	P	None
05	S	kitchen - west wall, left	0.427	0.44	P	0.595	0.573	P	0.202	0.094	P	0.141	0.109	P	P	None
06	S	kitchen - west wall, right	0.512	0.455	P	0.614	0.557	P	0.137	0.1	P	0.097	0.108	P	P	None
07	B	hall / 216	0.624	0.405	P	0.614	0.459	P	0.193	0.111	P	0.164	0.124	P	P	None
08	S	kitchen - north wall	0.427	0.458	P	0.333	0.322	P	0.135	0.054	P	0.112	0.051	P	P	None
09	S	kitchen - north wall	0.632	0.46	P	0.17	0.35	P	0.12	0.044	P	0.136	0.077	P	P	None
10	S/B	room 207	0.392	0.356	P	0.779	0.531	P	0.153	0.131	P	0.179	0.143	P	P	None
12	S/B	room 220				0.761	0.275	P	0.182	0.123	P	0.201	0.099	P	P	None
13	B	hall / 221				0.629	0.396	P	0.121	0.148	P	0.186	0.123	P	P	None
13A	B	hall / 221				0.627	0.329	P	0.143	0.116	P				P	None
14	S/B	room 109				0.911	0.978	P	0.22	0.266	P	0.252	0.308	P	P	None
15	S/B	room 108				0.77	0.916	P	0.249	0.287	P	0.202	0.249	P	P	None
16	B	Corr / 106				0.449	0.289	P	0.174	0.096	P	0.154	0.079	P	P	None
17	S/B	room 102				0.562	0.21	P	0.156	0.137	P	0.354	0.185	P	P	None
21	S/B	room 305				0.861	0.848	P	0.185	0.18	P	0.319	0.161	P	P	None
22	B/S	room 221				0.761	0.304	P	0.162	0.104	P	0.196	0.11	P	P	None
23	S/B	room 302							0.163	0.157	P	0.29	0.184	P	P	None
24	S/B	room 301				0.679	0.363	P	0.149	0.155	P	0.183	0.138	P	P	None
29	S/B	room 104							0.212	0.149	P	0.211	0.138	P	P	None
30	S/B	room 105				0.367	0.286	P	0.176	0.148	P	0.236	0.087	P	P	None
32	B	hall, near 303.				1.19	1.13	P	0.196	0.206	P	0.505	0.472	P	P	None
33	S/B	room 210	1.05	0.879	P	0.775	0.853	P	0.208	0.199	P	0.334	0.359	P	P	None
35	S	teachers lounge				0.908	0.911	P	0.204	0.155	P	0.143	0.13	P	P	None
36	S	room 101A							0.192	0.186	P	0.106	0.116	P	P	None
37	S	room 101B							0.135	0.116	P	0.09	0.087	P	P	None
42	S/B	room 103				0.805	0.825	P	0.174	0.187	P	0.237	0.191	P	P	None
43	S/B	room 106				0.845	0.367	P	0.187	0.163	P	0.194	0.099	P	P	None
44	S/B	room 107				3.29	1.16		0.172	0.166	P	0.195	0.097	P	P	None
45	S	storage room				0.457	0.599	P	0.21	0.253	P	0.201	0.171	P	P	None
46	S/B	room 304				0.777	0.252	P	0.166	0.169	P	0.139	0.107	P	P	None
47	S/B	room 219				0.756	0.296	P	0.168	0.105	P	0.166	0.098	P	P	None
51	S/B	room 201	0.629	0.537	P	0.719	0.871	P	0.167	0.128	P	0.288	0.205	P	P	None
52	S/B	room 202	0.638	0.44	P	0.414	0.403	P	0.203	0.171	P	0.167	0.115	P	P	None
53	S/B	room 203	0.668	0.489	P	0.678	0.645	P	0.103	0.096	P	0.096	0.076	P	P	None
54	S/B	room 204	0.715	0.501	P	0.748	0.567	P	0.142	0.126	P	0.166	0.117	P	P	None
55	S/B	room 216	0.482	0.451	P	0.184	0.155	P	0.074	0.058	P	0.099	0.088	P	P	None
56	S/B	room 215	0.748	0.817	P	1.06	1.11	P	0.23	0.214	P	0.3	0.327	P	P	None
57	S/B	room 214	0.654	0.661	P	0.88	0.933	P	0.187	0.218	P	0.305	0.335	P	P	None
58	S	room 213 counselor office	0.587	0.442	P	0.628	0.621	P	0.119	0.166	P	0.409	0.21	P	P	None
59	S/B	room 212	0.658	0.577	P	0.798	0.828	P	0.152	0.208	P	0.428	0.376	P	P	None
60	S/B	room 211	0.723	0.425	P	0.801	0.879	P	0.127	0.2	P	0.142	0.227	P	P	None
61	S/B	room 208	0.844	0.584	P	0.838	0.685	P	0.142	0.158	P	0.213	0.159	P	P	None
62	S/B	room 206	0.723	0.395	P	0.85	0.554	P	0.185	0.185	P	0.213	0.165	P	P	None
63	S/B	room 205	0.687	0.442	P	0.801	0.569	P	0.203	0.194	P	0.197	0.136	P	P	None
70	S/B	work room in 214							0.219	0.2	P	0.238	0.175	P	P	None
75	S	ROOM 303										0.353	0.297	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			10/11/2012		3/3/2016		11/14/2019		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
01	S/B	admin work room							P	None
02	S	nurses office	<0.05	P					P	None
03	BF	hall / near teachers room			<0.05	P			P	None
05	S	kitchen - west wall, left					<0.05	P	P	None
06	S	kitchen - west wall, right							P	None
07	B	hall / 216							P	None
08	S	kitchen - north wall							P	None
09	S	kitchen - north wall							P	None
10	S/B	room 207	<0.05	P					P	None
12	S/B	room 220							P	None
13	B	hall / 221							P	None
13A	B	hall / 221								
14	S/B	room 109							P	None
15	S/B	room 108							P	None
16	B	Corr / 106							P	None
17	S/B	room 102								
21	S/B	room 305							P	None
22	B/S	room 221							P	None
23	S/B	room 302								
24	S/B	room 301							P	None
29	S/B	room 104			<0.05	P			P	None
30	S/B	room 105							P	None
32	B	hall, near 303.							P	None
33	S/B	room 210								
35	S	teachers lounge					<0.05	P	P	None
36	S	room 101A								
37	S	room 101B								
42	S/B	room 103							P	None
43	S/B	room 106							P	None
44	S/B	room 107							P	None
45	S	storage room								
46	S/B	room 304							P	None
47	S/B	room 219					<0.05	P	P	None
51	S/B	room 201							P	None
52	S/B	room 202							P	None
53	S/B	room 203								
54	S/B	room 204							P	None
55	S/B	room 216							P	None
56	S/B	room 215	<0.05	P					P	None
57	S/B	room 214			<0.05	P	<0.05	P	P	None
58	S	room 213 counselor office								
59	S/B	room 212								
60	S/B	room 211								
61	S/B	room 208								
62	S/B	room 206								
63	S/B	room 205								
70	S/B	work room in 214								
75	S	ROOM 303								



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 sink CW	Arsenic	03-Mar-16	2 ppb	P
00	SE	boiler room sink CW	Cadmium	14-Nov-19	1 ppb	P
00	SE	boiler room sink CW	Chlorine	23-Apr-04	0.02 ppm	P
00	SE	boiler room sink CW	Copper	14-Nov-19	0.014 ppm	P
00	SE	boiler room sink CW	E coli	23-Apr-04	<1 Colonies	P
00	SE	boiler room sink CW	Iron	14-Nov-19	<0.05 ppm	P
00	SE	boiler room sink CW	Lead	14-Nov-19	1 ppb	P
00	SE	boiler room sink CW	Total Coliforms	23-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.