

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Manley School



November 15, 2016

INTRODUCTION

On January 16, 2016 the Department of Environmental Quality (DEQ) and the Department of Licensing and Regulatory Affairs (DLARA) conducted sampling at Manley School to evaluate the presence of lead and copper in the water due to the internal building distribution lines and fixtures.

During the week of March 28th, 2016 the DLARA completed replacement of drinking water fixtures at Manley School. These fixture replacements were required because testing results indicated that the older fixtures at most schools were imparting lead to the drinking water. After the fixtures were replaced, a more thorough flushing of the plumbing lines was completed to remove any remaining materials from the building's water supply system.

On Wednesday, April 6th, the DLARA and the DEQ conducted a post-fixture sampling assessment of the plumbing system at the facility.

For the protection of public health, DLARA started offering the installation of filters at schools and daycares in Flint. This work began in July, 2016.

Water Main Description

An internal inspection of the building yielded a three inch ductile iron and copper water main.

SAMPLING METHODS

Fixture Sampling

There are forty drinking water fixtures that were identified at the school. After a minimum six-hour stagnation period, four samples were collected at each of the fixtures identified. Two initial samples were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third sample was collected. Finally, the water was flushed for another two minutes, and the fourth sample was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.

Deep Plumbing Sampling

A different sampling method is used to determine the impact of any lead sources located deep in the supply plumbing of the building. During this method, ten bottles are collected in a row (consecutively). These bottles are one liter in size, which is larger than those used for the fixture sampling method.

Sampling Notes – January 16, 2016

- One hundred forty-four samples from 36 fixtures were collected and sent to the lab for analysis.
- Fifty samples from five specific fixtures were collected to test the deeper part of the plumbing system and sent to the lab for analysis.
- Samples were not taken from the following fixtures: DW002, DW016 and DW037 due to broken fixtures or only running hot water.
- The following sampling locations had both bubblers and faucets. The faucets were not sampled because they were running only hot water: CF010, DW029, DW030, DW032, DW034, DW036, DW038, and DW040.

Sampling Notes – April 6, 2016

- One hundred sixty samples from 40 fixtures were collected and sent to the lab for analysis.
- Fifty samples from five fixtures were collected and sent to the lab for analysis to assess the deeper part of the system.

SAMPLING RESULTS

Pre-Fixture Replacement

January 16, 2016

Of the 194 samples:

- Lead Range: Non-Detected (ND) to 1,856 parts per billion (ppb)
- Copper Range: ND to 5,300 ppb

Post-Fixture Replacement

April 6, 2016

Of the 210 samples:

- Lead Range: ND to 506 ppb
- Copper Range: ND to 1,350 ppb

* Where the result is non-detected for lead it means that the amount of lead in the water was less than 1 ppb.

* Where the result is non-detected for copper it means that the amount of copper in the water was less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	53	DW001 HALL RIGHT OF BOILER ROOM	P1	Copper	210
Lead	9	DW001 HALL RIGHT OF BOILER ROOM	P2	Copper	90
Lead	4	DW001 HALL RIGHT OF BOILER ROOM	F01	Copper	50
Lead	ND	DW001 HALL RIGHT OF BOILER ROOM	F02	Copper	ND
Lead	42	CF003 ROOM 212	P1	Copper	5,300
Lead	5	CF003 ROOM 212	P2	Copper	260
Lead	1	CF003 ROOM 212	F01	Copper	140
Lead	ND	CF003 ROOM 212	F02	Copper	50
Lead	2	KS004 ROOM 219	P1	Copper	80
Lead	2	KS004 ROOM 219	P2	Copper	80
Lead	ND	KS004 ROOM 219	F01	Copper	ND
Lead	ND	KS004 ROOM 219	F02	Copper	ND
Lead	3	KS005 ROOM 219	P1	Copper	ND
Lead	ND	KS005 ROOM 219	P2	Copper	ND
Lead	ND	KS005 ROOM 219	F01	Copper	ND
Lead	ND	KS005 ROOM 219	F02	Copper	ND
Lead	14	DW006 ROOM 219	P1	Copper	200
Lead	2	DW006 ROOM 219	P2	Copper	190
Lead	ND	DW006 ROOM 219	F01	Copper	ND
Lead	ND	DW006 ROOM 219	F02	Copper	ND
Lead	1	KS007 ROOM 219	P1	Copper	70
Lead	ND	KS007 ROOM 219	P2	Copper	140
Lead	ND	KS007 ROOM 219	F01	Copper	ND
Lead	ND	KS007 ROOM 219	F02	Copper	ND
Lead	22	DW008 NEXT TO ROOM 220	P1	Copper	130
Lead	4	DW008 NEXT TO ROOM 220	P2	Copper	80
Lead	1	DW008 NEXT TO ROOM 220	F01	Copper	ND
Lead	ND	DW008 NEXT TO ROOM 220	F02	Copper	ND
Lead	44	DW009 ROOM 220	P1	Copper	240
Lead	16	DW009 ROOM 220	P2	Copper	250
Lead	5	DW009 ROOM 220	F01	Copper	70
Lead	2	DW009 ROOM 220	F02	Copper	50
Lead	6	DW011 ROOM 222	P1	Copper	230
Lead	ND	DW011 ROOM 222	P2	Copper	200
Lead	1	DW011 ROOM 222	F01	Copper	180
Lead	1	DW011 ROOM 222	F02	Copper	ND
Lead	ND	CF012 ROOM 222	P1	Copper	80
Lead	ND	CF012 ROOM 222	P2	Copper	50
Lead	ND	CF012 ROOM 222	F01	Copper	ND
Lead	ND	CF012 ROOM 222	F02	Copper	ND
Lead	ND	KS013 ROOM 222	P1	Copper	90

Non-detected (ND) means; for lead the amount in water is less than 1 pbb for copper and the amount in water is less than 50 pbb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	KS013 ROOM 222	P2	Copper	90
Lead	ND	KS013 ROOM 222	F01	Copper	ND
Lead	ND	KS013 ROOM 222	F02	Copper	ND
Lead	2	KS014 ROOM 222	P1	Copper	130
Lead	1	KS014 ROOM 222	P2	Copper	110
Lead	ND	KS014 ROOM 222	F01	Copper	ND
Lead	ND	KS014 ROOM 222	F02	Copper	ND
Lead	8	DW015 ACROSS FROM ROOM 223	P1	Copper	ND
Lead	3	DW015 ACROSS FROM ROOM 223	P2	Copper	ND
Lead	2	DW015 ACROSS FROM ROOM 223	F01	Copper	ND
Lead	ND	DW015 ACROSS FROM ROOM 223	F02	Copper	ND
Lead	5	CF017 ROOM 212	P1	Copper	60
Lead	2	CF017 ROOM 212	P2	Copper	100
Lead	ND	CF017 ROOM 212	F01	Copper	100
Lead	ND	CF017 ROOM 212	F02	Copper	90
Lead	33	KS018 ROOM 226	P1	Copper	110
Lead	10	KS018 ROOM 226	P2	Copper	160
Lead	ND	KS018 ROOM 226	F01	Copper	ND
Lead	ND	KS018 ROOM 226	F02	Copper	ND
Lead	2	KS019 ROOM 226	P1	Copper	80
Lead	1	KS019 ROOM 226	P2	Copper	ND
Lead	ND	KS019 ROOM 226	F01	Copper	ND
Lead	ND	KS019 ROOM 226	F02	Copper	ND
Lead	5	DW020 ROOM 226	P1	Copper	200
Lead	ND	DW020 ROOM 226	P2	Copper	160
Lead	ND	DW020 ROOM 226	F01	Copper	ND
Lead	1	DW020 ROOM 226	F02	Copper	ND
Lead	7	CF021 ROOM 226	P1	Copper	130
Lead	ND	CF021 ROOM 226	P2	Copper	110
Lead	ND	CF021 ROOM 226	F01	Copper	ND
Lead	ND	CF021 ROOM 226	F02	Copper	ND
Lead	76	DW022 NEXT TO ROOM 227	P1	Copper	240
Lead	23	DW022 NEXT TO ROOM 227	P2	Copper	100
Lead	3	DW022 NEXT TO ROOM 227	F01	Copper	ND
Lead	ND	DW022 NEXT TO ROOM 227	F02	Copper	ND
Lead	14	DW023 ROOM 227	P1	Copper	190
Lead	1	DW023 ROOM 227	P2	Copper	140
Lead	ND	DW023 ROOM 227	F01	Copper	ND
Lead	ND	DW023 ROOM 227	F02	Copper	ND
Lead	ND	CF024 ROOM 227	P1	Copper	90
Lead	ND	CF024 ROOM 227	P2	Copper	120

Non-detected (ND) means; for lead the amount in water is less than 1 ppb for copper and the amount in water is less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	CF024 ROOM 227	F01	Copper	ND
Lead	ND	CF024 ROOM 227	F02	Copper	ND
Lead	ND	KS025 ROOM 227	P1	Copper	70
Lead	ND	KS025 ROOM 227	P2	Copper	70
Lead	ND	KS025 ROOM 227	F01	Copper	ND
Lead	ND	KS025 ROOM 227	F02	Copper	ND
Lead	33	KS026 ROOM 227	P1	Copper	180
Lead	2	KS026 ROOM 227	P2	Copper	150
Lead	ND	KS026 ROOM 227	F01	Copper	ND
Lead	ND	KS026 ROOM 227	F02	Copper	ND
Lead	4	KS027 KITCHEN	P1	Copper	100
Lead	2	KS027 KITCHEN	P2	Copper	70
Lead	ND	KS027 KITCHEN	F01	Copper	ND
Lead	ND	KS027 KITCHEN	F02	Copper	ND
Lead	8	DW028 HALL LEFT OF GIRLS ROOM	P1	Copper	ND
Lead	6	DW028 HALL LEFT OF GIRLS ROOM	P2	Copper	ND
Lead	1	DW028 HALL LEFT OF GIRLS ROOM	F01	Copper	ND
Lead	ND	DW028 HALL LEFT OF GIRLS ROOM	F02	Copper	ND
Lead	47	DW029 CLASSROOM 123	P1	Copper	260
Lead	246	DW029 CLASSROOM 123	P2	Copper	1,400
Lead	3	DW029 CLASSROOM 123	F01	Copper	ND
Lead	1	DW029 CLASSROOM 123	F02	Copper	ND
Lead	274	DW030 ROOM 122	P1	Copper	370
Lead	1,856	DW030 ROOM 122	P2	Copper	3,320
Lead	7	DW030 ROOM 122	F01	Copper	ND
Lead	2	DW030 ROOM 122	F02	Copper	ND
Lead	2	KS031 ROOM 121	P1	Copper	70
Lead	ND	KS031 ROOM 121	P2	Copper	180
Lead	ND	KS031 ROOM 121	F01	Copper	ND
Lead	ND	KS031 ROOM 121	F02	Copper	ND
Lead	8	DW032 ROOM 114	P1	Copper	90
Lead	4	DW032 ROOM 114	P2	Copper	80
Lead	1	DW032 ROOM 114	F01	Copper	ND
Lead	ND	DW032 ROOM 114	F02	Copper	ND
Lead	16	KS033 ROOM 120	P1	Copper	130
Lead	ND	KS033 ROOM 120	P2	Copper	180
Lead	ND	KS033 ROOM 120	F01	Copper	ND
Lead	ND	KS033 ROOM 120	F02	Copper	ND
Lead	42	DW034 ROOM 116	P1	Copper	150
Lead	14	DW034 ROOM 116	P2	Copper	120
Lead	6	DW034 ROOM 116	F01	Copper	50

Non-detected (ND) means; for lead the amount in water is less than 1 pbb for copper and the amount in water is less than 50 pbb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	DW034 ROOM 116	F02	Copper	ND
Lead	7	DW035 NEXT TO ROOM 116	P1	Copper	60
Lead	1	DW035 NEXT TO ROOM 116	P2	Copper	60
Lead	2	DW035 NEXT TO ROOM 116	F01	Copper	70
Lead	1	DW035 NEXT TO ROOM 116	F02	Copper	60
Lead	14	DW036 ROOM 108	P1	Copper	430
Lead	12	DW036 ROOM 108	P2	Copper	190
Lead	2	DW036 ROOM 108	F01	Copper	80
Lead	1	DW036 ROOM 108	F02	Copper	50
Lead	81	DW038 ROOM 106	P1	Copper	420
Lead	46	DW038 ROOM 106	P2	Copper	280
Lead	23	DW038 ROOM 106	F01	Copper	150
Lead	8	DW038 ROOM 106	F02	Copper	60
Lead	110	KS039 ROOM 105	P1	Copper	450
Lead	113	KS039 ROOM 105	P2	Copper	690
Lead	10	KS039 ROOM 105	F01	Copper	190
Lead	4	KS039 ROOM 105	F02	Copper	140
Lead	10	DW040 ROOM 105	P1	Copper	210
Lead	5	DW040 ROOM 105	P2	Copper	150
Lead	4	DW040 ROOM 105	F01	Copper	130
Lead	3	DW040 ROOM 105	F02	Copper	70
Lead	ND	KS027	CA1	Copper	ND
Lead	ND	KS027	CA2	Copper	ND
Lead	ND	KS027	CA3	Copper	ND
Lead	ND	KS027	CA4	Copper	ND
Lead	ND	KS027	CA5	Copper	ND
Lead	ND	KS027	CA6	Copper	ND
Lead	ND	KS027	CA7	Copper	ND
Lead	ND	KS027	CA8	Copper	ND
Lead	ND	KS027	CA9	Copper	ND
Lead	ND	KS027	CA10	Copper	ND
Lead	4	DW009	CB1	Copper	80
Lead	1	DW009	CB2	Copper	ND
Lead	ND	DW009	CB3	Copper	ND
Lead	ND	DW009	CB4	Copper	ND
Lead	ND	DW009	CB5	Copper	ND
Lead	ND	DW009	CB6	Copper	ND
Lead	ND	DW009	CB7	Copper	ND
Lead	1	DW009	CB8	Copper	ND
Lead	1	DW009	CB9	Copper	ND
Lead	ND	DW009	CB10	Copper	ND

Non-detected (ND) means; for lead the amount in water is less than 1 pbb for copper and the amount in water is less than 50 pbb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	23	KS026	CC1	Copper	60
Lead	ND	KS026	CC2	Copper	ND
Lead	ND	KS026	CC3	Copper	ND
Lead	ND	KS026	CC4	Copper	ND
Lead	ND	KS026	CC5	Copper	ND
Lead	ND	KS026	CC6	Copper	ND
Lead	ND	KS026	CC7	Copper	ND
Lead	ND	KS026	CC8	Copper	ND
Lead	ND	KS026	CC9	Copper	ND
Lead	ND	KS026	CC10	Copper	ND
Lead	7	KS033	CD1	Copper	140
Lead	ND	KS033	CD2	Copper	ND
Lead	ND	KS033	CD3	Copper	ND
Lead	4	KS033	CD4	Copper	ND
Lead	ND	KS033	CD5	Copper	ND
Lead	ND	KS033	CD6	Copper	ND
Lead	ND	KS033	CD7	Copper	ND
Lead	ND	KS033	CD8	Copper	ND
Lead	ND	KS033	CD9	Copper	ND
Lead	ND	KS033	CD10	Copper	ND
Lead	19	KS039	CE1	Copper	140
Lead	7	KS039	CE2	Copper	110
Lead	4	KS039	CE3	Copper	80
Lead	4	KS039	CE4	Copper	80
Lead	4	KS039	CE5	Copper	80
Lead	6	KS039	CE6	Copper	100
Lead	4	KS039	CE7	Copper	70
Lead	3	KS039	CE8	Copper	70
Lead	3	KS039	CE9	Copper	70
Lead	4	KS039	CE10	Copper	80

Non-detected (ND) means; for lead the amount in water is less than 1 ppb for copper and the amount in water is less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	15	DW001 HALL RIGHT OF BOILER RM	P1	Copper	150
Lead	17	DW001 HALL RIGHT OF BOILER RM	P2	Copper	140
Lead	1	DW001 HALL RIGHT OF BOILER RM	F01	Copper	50
Lead	ND	DW001 HALL RIGHT OF BOILER RM	F02	Copper	ND
Lead	20	DW002 ROOM 212	P1	Copper	1350
Lead	10	DW002 ROOM 212	P2	Copper	560
Lead	2	DW002 ROOM 212	F01	Copper	330
Lead	ND	DW002 ROOM 212	F02	Copper	120
Lead	5	CF003 ROOM 212	P1	Copper	300
Lead	4	CF003 ROOM 212	P2	Copper	160
Lead	ND	CF003 ROOM 212	F01	Copper	110
Lead	ND	CF003 ROOM 212	F02	Copper	60
Lead	6	KS004 ROOM 219	P1	Copper	100
Lead	ND	KS004 ROOM 219	P2	Copper	50
Lead	ND	KS004 ROOM 219	F01	Copper	ND
Lead	ND	KS004 ROOM 219	F02	Copper	ND
Lead	1	KS005 ROOM 219	P1	Copper	90
Lead	ND	KS005 ROOM 219	P2	Copper	ND
Lead	ND	KS005 ROOM 219	F01	Copper	ND
Lead	ND	KS005 ROOM 219	F02	Copper	ND
Lead	ND	DW006 ROOM 219	P1	Copper	210
Lead	ND	DW006 ROOM 219	P2	Copper	290
Lead	ND	DW006 ROOM 219	F01	Copper	ND
Lead	ND	DW006 ROOM 219	F02	Copper	ND
Lead	ND	KS007 ROOM 219	P1	Copper	80
Lead	ND	KS007 ROOM 219	P2	Copper	ND
Lead	ND	KS007 ROOM 219	F01	Copper	ND
Lead	ND	KS007 ROOM 219	F02	Copper	ND
Lead	22	DW008 NEXT TO ROOM 220	P1	Copper	170
Lead	4	DW008 NEXT TO ROOM 220	P2	Copper	120
Lead	3	DW008 NEXT TO ROOM 220	F01	Copper	ND
Lead	ND	DW008 NEXT TO ROOM 220	F02	Copper	ND
Lead	13	DW009 ROOM 220	P1	Copper	190
Lead	2	DW009 ROOM 220	P2	Copper	110
Lead	ND	DW009 ROOM 220	F01	Copper	ND
Lead	ND	DW009 ROOM 220	F02	Copper	ND
Lead	4	CF010 ROOM 220	P1	Copper	ND
Lead	ND	CF010 ROOM 220	P2	Copper	ND
Lead	ND	CF010 ROOM 220	F01	Copper	ND
Lead	ND	CF010 ROOM 220	F02	Copper	ND
Lead	ND	DW011 ROOM 222	P1	Copper	170
Lead	ND	DW011 ROOM 222	P2	Copper	250
Lead	ND	DW011 ROOM 222	F01	Copper	220

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	DW011 ROOM 222	F02	Copper	50
Lead	1	CF012 ROOM 222	P1	Copper	110
Lead	ND	CF012 ROOM 222	P2	Copper	50
Lead	ND	CF012 ROOM 222	F01	Copper	60
Lead	ND	CF012 ROOM 222	F02	Copper	50
Lead	1	KS013 ROOM 222	P1	Copper	180
Lead	ND	KS013 ROOM 222	P2	Copper	100
Lead	ND	KS013 ROOM 222	F01	Copper	50
Lead	ND	KS013 ROOM 222	F02	Copper	60
Lead	ND	KS014	P1	Copper	130
Lead	ND	KS014	P2	Copper	90
Lead	ND	KS014	F01	Copper	60
Lead	ND	KS014	F02	Copper	60
Lead	22	DW015	P1	Copper	100
Lead	6	DW015	P2	Copper	80
Lead	2	DW015	F01	Copper	50
Lead	ND	DW015	F02	Copper	ND
Lead	3	DW016 ROOM 212	P1	Copper	310
Lead	2	DW016 ROOM 212	P2	Copper	120
Lead	ND	DW016 ROOM 212	F01	Copper	50
Lead	ND	DW016 ROOM 212	F02	Copper	ND
Lead	3	CF017 ROOM 212	P1	Copper	80
Lead	ND	CF017 ROOM 212	P2	Copper	70
Lead	ND	CF017 ROOM 212	F01	Copper	ND
Lead	ND	CF017 ROOM 212	F02	Copper	50
Lead	1	KS018 ROOM 226	P1	Copper	110
Lead	ND	KS018 ROOM 226	P2	Copper	50
Lead	ND	KS018 ROOM 226	F01	Copper	ND
Lead	ND	KS018 ROOM 226	F02	Copper	ND
Lead	ND	KS019 ROOM 226	P1	Copper	80
Lead	ND	KS019 ROOM 226	P2	Copper	ND
Lead	ND	KS019 ROOM 226	F01	Copper	ND
Lead	ND	KS019 ROOM 226	F02	Copper	ND
Lead	ND	DW020 ROOM 226	P1	Copper	140
Lead	ND	DW020 ROOM 226	P2	Copper	80
Lead	ND	DW020 ROOM 226	F01	Copper	ND
Lead	ND	DW020 ROOM 226	F02	Copper	ND
Lead	ND	CF021 ROOM 226	P1	Copper	60
Lead	ND	CF021 ROOM 226	P2	Copper	ND
Lead	ND	CF021 ROOM 226	F01	Copper	ND
Lead	ND	CF021 ROOM 226	F02	Copper	ND
Lead	130	DW022 NEXT TO ROOM 227	P1	Copper	140
Lead	10	DW022 NEXT TO ROOM 227	P2	Copper	80

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	8	DW022 NEXT TO ROOM 227	F01	Copper	ND
Lead	1	DW022 NEXT TO ROOM 227	F02	Copper	ND
Lead	ND	DW023 ROOM 227	P1	Copper	180
Lead	ND	DW023 ROOM 227	P2	Copper	260
Lead	ND	DW023 ROOM 227	F01	Copper	ND
Lead	ND	DW023 ROOM 227	F02	Copper	ND
Lead	ND	CF024 ROOM 227	P1	Copper	160
Lead	ND	CF024 ROOM 227	P2	Copper	60
Lead	ND	CF024 ROOM 227	F01	Copper	ND
Lead	ND	CF024 ROOM 227	F02	Copper	ND
Lead	ND	KS025 ROOM 227	P1	Copper	80
Lead	ND	KS025 ROOM 227	P2	Copper	ND
Lead	ND	KS025 ROOM 227	F01	Copper	ND
Lead	ND	KS025 ROOM 227	F02	Copper	ND
Lead	ND	KS026 ROOM 227	P1	Copper	90
Lead	ND	KS026 ROOM 227	P2	Copper	ND
Lead	ND	KS026 ROOM 227	F01	Copper	ND
Lead	ND	KS026 ROOM 227	F02	Copper	ND
Lead	2	KS027 COMMUNITY RM/KITCHEN	P1	Copper	160
Lead	ND	KS027 COMMUNITY RM/KITCHEN	P2	Copper	110
Lead	ND	KS027 COMMUNITY RM/KITCHEN	F01	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	F02	Copper	ND
Lead	17	DW028 ACROSS FROM ROOM 123	P1	Copper	70
Lead	21	DW028 ACROSS FROM ROOM 123	P2	Copper	60
Lead	2	DW028 ACROSS FROM ROOM 123	F01	Copper	50
Lead	ND	DW028 ACROSS FROM ROOM 123	F02	Copper	ND
Lead	6	DW029 ROOM 123	P1	Copper	50
Lead	2	DW029 ROOM 123	P2	Copper	70
Lead	ND	DW029 ROOM 123	F01	Copper	ND
Lead	ND	DW029 ROOM 123	F02	Copper	ND
Lead	28	DW030 ROOM 122	P1	Copper	120
Lead	6	DW030 ROOM 122	P2	Copper	90
Lead	1	DW030 ROOM 122	F01	Copper	ND
Lead	ND	DW030 ROOM 122	F02	Copper	ND
Lead	ND	KS031 ROOM 121	P1	Copper	170
Lead	ND	KS031 ROOM 121	P2	Copper	260
Lead	ND	KS031 ROOM 121	F01	Copper	ND
Lead	ND	KS031 ROOM 121	F02	Copper	ND
Lead	3	DW032 ROOM 114	P1	Copper	100
Lead	1	DW032 ROOM 114	P2	Copper	90
Lead	ND	DW032 ROOM 114	F01	Copper	60
Lead	ND	DW032 ROOM 114	F02	Copper	ND
Lead	ND	KS033 ROOM 120	P1	Copper	160

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	KS033 ROOM 120	P2	Copper	220
Lead	ND	KS033 ROOM 120	F01	Copper	ND
Lead	ND	KS033 ROOM 120	F02	Copper	ND
Lead	63	DW034 YELLOW ACTIVITY AREA	P1	Copper	150
Lead	9	DW034 YELLOW ACTIVITY AREA	P2	Copper	150
Lead	2	DW034 YELLOW ACTIVITY AREA	F01	Copper	60
Lead	1	DW034 YELLOW ACTIVITY AREA	F02	Copper	ND
Lead	9	DW035 NEXT TO ROOM 116	P1	Copper	90
Lead	4	DW035 NEXT TO ROOM 116	P2	Copper	80
Lead	1	DW035 NEXT TO ROOM 116	F01	Copper	90
Lead	ND	DW035 NEXT TO ROOM 116	F02	Copper	70
Lead	215	DW036 ROOM 108	P1	Copper	150
Lead	4	DW036 ROOM 108	P2	Copper	120
Lead	2	DW036 ROOM 108	F01	Copper	110
Lead	ND	DW036 ROOM 108	F02	Copper	60
Lead	77	DW037 ROOM 107	P1	Copper	300
Lead	13	DW037 ROOM 107	P2	Copper	180
Lead	45	DW037 ROOM 107	F01	Copper	290
Lead	19	DW037 ROOM 107	F02	Copper	60
Lead	145	DW038 ROOM 106	P1	Copper	190
Lead	506	DW038 ROOM 106	P2	Copper	700
Lead	75	DW038 ROOM 106	F01	Copper	290
Lead	7	DW038 ROOM 106	F02	Copper	ND
Lead	6	KS039 ROOM 105	P1	Copper	150
Lead	4	KS039 ROOM 105	P2	Copper	190
Lead	4	KS039 ROOM 105	F01	Copper	170
Lead	4	KS039 ROOM 105	F02	Copper	90
Lead	8	DW040 ROOM 105	P1	Copper	140
Lead	4	DW040 ROOM 105	P2	Copper	90
Lead	2	DW040 ROOM 105	F01	Copper	70
Lead	1	DW040 ROOM 105	F02	Copper	60
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA1	Copper	60
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA2	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA3	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA4	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA5	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA6	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA7	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA8	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA9	Copper	ND
Lead	ND	KS027 COMMUNITY RM/KITCHEN	CA10	Copper	ND
Lead	1	DW009 ROOM 220	CB1	Copper	60
Lead	ND	DW009 ROOM 220	CB2	Copper	ND

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Manley School

April 6, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	DW009 ROOM 220	CB3	Copper	ND
Lead	ND	DW009 ROOM 220	CB4	Copper	ND
Lead	ND	DW009 ROOM 220	CB5	Copper	ND
Lead	ND	DW009 ROOM 220	CB6	Copper	ND
Lead	ND	DW009 ROOM 220	CB7	Copper	ND
Lead	ND	DW009 ROOM 220	CB8	Copper	ND
Lead	ND	DW009 ROOM 220	CB9	Copper	ND
Lead	ND	DW009 ROOM 220	CB10	Copper	ND
Lead	ND	KS026 ROOM 227	CC1	Copper	60
Lead	ND	KS026 ROOM 227	CC2	Copper	ND
Lead	ND	KS026 ROOM 227	CC3	Copper	ND
Lead	ND	KS026 ROOM 227	CC4	Copper	ND
Lead	ND	KS026 ROOM 227	CC5	Copper	ND
Lead	ND	KS026 ROOM 227	CC6	Copper	ND
Lead	ND	KS026 ROOM 227	CC7	Copper	ND
Lead	ND	KS026 ROOM 227	CC8	Copper	ND
Lead	ND	KS026 ROOM 227	CC9	Copper	ND
Lead	ND	KS026 ROOM 227	CC10	Copper	ND
Lead	ND	KS033 ROOM 120	CD1	Copper	70
Lead	ND	KS033 ROOM 120	CD2	Copper	ND
Lead	ND	KS033 ROOM 120	CD3	Copper	ND
Lead	ND	KS033 ROOM 120	CD4	Copper	ND
Lead	ND	KS033 ROOM 120	CD5	Copper	ND
Lead	ND	KS033 ROOM 120	CD6	Copper	ND
Lead	ND	KS033 ROOM 120	CD7	Copper	ND
Lead	ND	KS033 ROOM 120	CD8	Copper	ND
Lead	ND	KS033 ROOM 120	CD9	Copper	ND
Lead	ND	KS033 ROOM 120	CD10	Copper	ND
Lead	2	KS039 ROOM 105	CE1	Copper	80
Lead	1	KS039 ROOM 105	CE2	Copper	70
Lead	ND	KS039 ROOM 105	CE3	Copper	60
Lead	ND	KS039 ROOM 105	CE4	Copper	60
Lead	ND	KS039 ROOM 105	CE5	Copper	60
Lead	ND	KS039 ROOM 105	CE6	Copper	50
Lead	ND	KS039 ROOM 105	CE7	Copper	50
Lead	ND	KS039 ROOM 105	CE8	Copper	60
Lead	1	KS039 ROOM 105	CE9	Copper	60
Lead	2	KS039 ROOM 105	CE10	Copper	50

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.