

POST-FILTER INSTALLATION SAMPLING RESULTS REPORT

Doyle Ryder Elementary



December 14, 2016

INTRODUCTION

On November 7, 2015, the Department of Environmental Quality (DEQ) sampled at Doyle Ryder Elementary School to assess the concentrations of lead and copper in the plumbing system at the school.

During the months of February and March, 2016, the Department of Licensing and Regulatory Affairs (DLARA) completed replacement of drinking water fixtures at Doyle Ryder. 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 Saturday, March 19, 2016, 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 in daycares and schools. This work began in July, 2016. Filters were installed at Doyle Ryder in early October, 2016.

After filter installation, on October 22, 2016, the DEQ went back and sampled the filtered water through the fixtures.

Water Main Description

An internal inspection of the building yielded a four-inch cast iron water service main with a copper distribution system. The distribution system also had lead solder joints and brass valves throughout the building.

SAMPLING METHODS

Fixture Sampling

There are 56 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

November 7, 2015

- Two hundred and eight samples from 52 fixtures were collected and sent to the lab for analysis.
- Sixty samples from six specific fixtures were collected to test the deeper part of the plumbing system and sent to the lab for analysis.

March 19, 2016

- Two hundred and twenty-four samples from 56 fixtures were collected and sent to the lab for analysis.
- Sixty samples from six specific fixtures were collected to test the deeper part of the plumbing system and sent to the lab for analysis.

October 22, 2016

- Fifty-three samples from 53 fixtures were collected and sent to the lab for analysis. These samples were taken in 250 milliliter bottles.
- Fixtures 02CF032, 01CF047, and 01KC049 were not sampled because their drains were clogged and the fixtures could not be flushed (or used).

SAMPLING RESULTS

Pre-Fixture Replacement

November 7, 2015
Of the 268 samples:

- Lead Range: Non-Detected (ND) to 349 parts per billion (ppb)
- Copper Range: ND to 410 ppb

Post-Fixture Replacement

March 19, 2016
Of the 284 samples:

- Lead Range: ND to 1,515 ppb
- Copper Range: ND to 1,370 ppb

Post-Filter Replacement

October 22, 2016
Of the 53 samples:

- Lead Range: ND to 4 ppb
- Copper Range: ND to 540 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.*

December 14, 2016

Doyle Ryder School
November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	7	01CF001 ROOM 159	P1	Copper	80
Lead	14	01CF001 ROOM 159	P2	Copper	120
Lead	2	01CF001 ROOM 159	F01	Copper	70
Lead	ND	01CF001 ROOM 159	F02	Copper	ND
Lead	6	01DW002 ROOM 159	P1	Copper	160
Lead	ND	01DW002 ROOM 159	P2	Copper	50
Lead	ND	01DW002 ROOM 159	F01	Copper	ND
Lead	ND	01DW002 ROOM 159	F02	Copper	ND
Lead	8	01CF003 ROOM 160	P1	Copper	130
Lead	26	01CF003 ROOM 160	P2	Copper	180
Lead	1	01CF003 ROOM 160	F01	Copper	60
Lead	1	01CF003 ROOM 160	F02	Copper	50
Lead	2	01DW004 ROOM 160	P1	Copper	330
Lead	ND	01DW004 ROOM 160	P2	Copper	90
Lead	ND	01DW004 ROOM 160	F01	Copper	50
Lead	ND	01DW004 ROOM 160	F02	Copper	50
Lead	12	01WC005 FIRST FLOOR RESTROOM	P1	Copper	160
Lead	15	01WC005 FIRST FLOOR RESTROOM	P2	Copper	190
Lead	16	01WC005 FIRST FLOOR RESTROOM	F01	Copper	180
Lead	4	01WC005 FIRST FLOOR RESTROOM	F02	Copper	100
Lead	3	01WC006 FIRST FLOOR RESTROOM	P1	Copper	300
Lead	3	01WC006 FIRST FLOOR RESTROOM	P2	Copper	320
Lead	4	01WC006 FIRST FLOOR RESTROOM	F01	Copper	230
Lead	2	01WC006 FIRST FLOOR RESTROOM	F02	Copper	100
Lead	11	01CF008 ROOM 156	P1	Copper	60
Lead	35	01CF008 ROOM 156	P2	Copper	120
Lead	4	01CF008 ROOM 156	F01	Copper	90
Lead	2	01CF008 ROOM 156	F02	Copper	70
Lead	3	01CF009 ROOM 154	P1	Copper	90
Lead	14	01CF009 ROOM 154	P2	Copper	230
Lead	4	01CF009 ROOM 154	F01	Copper	80
Lead	1	01CF009 ROOM 154	F02	Copper	50
Lead	2	01DW010 ROOM 154	P1	Copper	210
Lead	1	01DW010 ROOM 154	P2	Copper	60
Lead	1	01DW010 ROOM 154	F01	Copper	50
Lead	ND	01DW010 ROOM 154	F02	Copper	ND
Lead	12	01DW011 ROOM 153	P1	Copper	180
Lead	7	01DW011 ROOM 153	P2	Copper	80
Lead	1	01DW011 ROOM 153	F01	Copper	ND
Lead	ND	01DW011 ROOM 153	F02	Copper	ND
Lead	5	01CF012 ROOM 153	P1	Copper	120

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.

Doyle Ryder School

November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	13	01CF012 ROOM 153	P2	Copper	140
Lead	1	01CF012 ROOM 153	F01	Copper	ND
Lead	1	01CF012 ROOM 153	F02	Copper	ND
Lead	11	01DW013 ROOM 152	P1	Copper	200
Lead	13	01DW013 ROOM 152	P2	Copper	150
Lead	2	01DW013 ROOM 152	F01	Copper	70
Lead	1	01DW013 ROOM 152	F02	Copper	60
Lead	10	01CF014 ROOM 152	P1	Copper	110
Lead	13	01CF014 ROOM 152	P2	Copper	170
Lead	2	01CF014 ROOM 152	F01	Copper	60
Lead	1	01CF014 ROOM 152	F02	Copper	50
Lead	8	01DW015 ROOM 151	P1	Copper	220
Lead	5	01DW015 ROOM 151	P2	Copper	90
Lead	1	01DW015 ROOM 151	F01	Copper	60
Lead	1	01DW015 ROOM 151	F02	Copper	60
Lead	9	01CF016 ROOM 151	P1	Copper	100
Lead	14	01CF016 ROOM 151	P2	Copper	90
Lead	2	01CF016 ROOM 151	F01	Copper	60
Lead	1	01CF016 ROOM 151	F02	Copper	50
Lead	13	01DW017 ROOM 155	P1	Copper	130
Lead	5	01DW017 ROOM 155	P2	Copper	90
Lead	2	01DW017 ROOM 155	F01	Copper	80
Lead	3	01DW017 ROOM 155	F02	Copper	90
Lead	9	01CF018 ROOM 155	P1	Copper	100
Lead	16	01CF018 ROOM 155	P2	Copper	100
Lead	3	01CF018 ROOM 155	F01	Copper	90
Lead	3	01CF018 ROOM 155	F02	Copper	80
Lead	10	02CF019 ROOM 258	P1	Copper	60
Lead	24	02CF019 ROOM 258	P2	Copper	220
Lead	2	02CF019 ROOM 258	F01	Copper	50
Lead	1	02CF019 ROOM 258	F02	Copper	ND
Lead	6	02DW020 ROOM 258	P1	Copper	190
Lead	3	02DW020 ROOM 258	P2	Copper	60
Lead	1	02DW020 ROOM 258	F01	Copper	ND
Lead	1	02DW020 ROOM 258	F02	Copper	ND
Lead	17	02CF021 ROOM 257	P1	Copper	80
Lead	18	02CF021 ROOM 257	P2	Copper	220
Lead	2	02CF021 ROOM 257	F01	Copper	ND
Lead	1	02CF021 ROOM 257	F02	Copper	ND
Lead	4	02DW022 ROOM 257	P1	Copper	180
Lead	1	02DW022 ROOM 257	P2	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.

Doyle Ryder School

November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	02DW022 ROOM 257	F01	Copper	ND
Lead	ND	02DW022 ROOM 257	F02	Copper	ND
Lead	7	02DW023 ROOM 256	P1	Copper	200
Lead	8	02DW023 ROOM 256	P2	Copper	140
Lead	2	02DW023 ROOM 256	F01	Copper	80
Lead	2	02DW023 ROOM 256	F02	Copper	80
Lead	9	02CF024 ROOM 256	P1	Copper	70
Lead	12	02CF024 ROOM 256	P2	Copper	180
Lead	2	02CF024 ROOM 256	F01	Copper	80
Lead	2	02CF024 ROOM 256	F02	Copper	70
Lead	7	02DW025 ROOM 259	P1	Copper	280
Lead	6	02DW025 ROOM 259	P2	Copper	130
Lead	1	02DW025 ROOM 259	F01	Copper	80
Lead	1	02DW025 ROOM 259	F02	Copper	80
Lead	74	02CF026 ROOM 259	P1	Copper	100
Lead	15	02CF026 ROOM 259	P2	Copper	150
Lead	2	02CF026 ROOM 259	F01	Copper	80
Lead	2	02CF026 ROOM 259	F02	Copper	70
Lead	6	02WC027 SECOND FLOOR RESTROOM	P1	Copper	340
Lead	5	02WC027 SECOND FLOOR RESTROOM	P2	Copper	340
Lead	6	02WC027 SECOND FLOOR RESTROOM	F01	Copper	120
Lead	2	02WC027 SECOND FLOOR RESTROOM	F02	Copper	80
Lead	23	02DW029 ROOM 254	P1	Copper	140
Lead	52	02DW029 ROOM 254	P2	Copper	150
Lead	2	02DW029 ROOM 254	F01	Copper	ND
Lead	1	02DW029 ROOM 254	F02	Copper	ND
Lead	13	02CF030 ROOM 254	P1	Copper	80
Lead	17	02CF030 ROOM 254	P2	Copper	140
Lead	2	02CF030 ROOM 254	F01	Copper	ND
Lead	2	02CF030 ROOM 254	F02	Copper	ND
Lead	25	02DW031 ROOM 253	P1	Copper	220
Lead	41	02DW031 ROOM 253	P2	Copper	170
Lead	2	02DW031 ROOM 253	F01	Copper	ND
Lead	2	02DW031 ROOM 253	F02	Copper	ND
Lead	15	02CF032 ROOM 253	P1	Copper	50
Lead	20	02CF032 ROOM 253	P2	Copper	180
Lead	3	02CF032 ROOM 253	F01	Copper	ND
Lead	2	02CF032 ROOM 253	F02	Copper	ND
Lead	11	02DW033 ROOM 252	P1	Copper	240
Lead	16	02DW033 ROOM 252	P2	Copper	200
Lead	2	02DW033 ROOM 252	F01	Copper	90

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.

Doyle Ryder School
November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	02DW033 ROOM 252	F02	Copper	90
Lead	4	02CF034 ROOM 252	P1	Copper	90
Lead	10	02CF034 ROOM 252	P2	Copper	160
Lead	3	02CF034 ROOM 252	F01	Copper	90
Lead	2	02CF034 ROOM 252	F02	Copper	70
Lead	10	02DW035 ROOM 251	P1	Copper	310
Lead	11	02DW035 ROOM 251	P2	Copper	160
Lead	2	02DW035 ROOM 251	F01	Copper	80
Lead	2	02DW035 ROOM 251	F02	Copper	70
Lead	11	02CF036 ROOM 251	P1	Copper	80
Lead	11	02CF036 ROOM 251	P2	Copper	170
Lead	2	02CF036 ROOM 251	F01	Copper	70
Lead	1	02CF036 ROOM 251	F02	Copper	70
Lead	9	01DW037 GYM FIRST FLOOR	P1	Copper	220
Lead	4	01DW037 GYM FIRST FLOOR	P2	Copper	180
Lead	3	01DW037 GYM FIRST FLOOR	F01	Copper	80
Lead	ND	01DW037 GYM FIRST FLOOR	F02	Copper	ND
Lead	1	01DW038 GYM FIRST FLOOR	P1	Copper	ND
Lead	ND	01DW038 GYM FIRST FLOOR	P2	Copper	ND
Lead	ND	01DW038 GYM FIRST FLOOR	F01	Copper	ND
Lead	ND	01DW038 GYM FIRST FLOOR	F02	Copper	ND
Lead	341	02CF039 ROOM 260	P1	Copper	120
Lead	349	02CF039 ROOM 260	P2	Copper	190
Lead	66	02CF039 ROOM 260	F01	Copper	120
Lead	14	02CF039 ROOM 260	F02	Copper	ND
Lead	85	02DW040 ROOM 260	P1	Copper	90
Lead	29	02DW040 ROOM 260	P2	Copper	60
Lead	18	02DW040 ROOM 260	F01	Copper	50
Lead	15	02DW040 ROOM 260	F02	Copper	ND
Lead	340	02CF041 ROOM 262	P1	Copper	90
Lead	132	02CF041 ROOM 262	P2	Copper	210
Lead	16	02CF041 ROOM 262	F01	Copper	ND
Lead	8	02CF041 ROOM 262	F02	Copper	ND
Lead	44	02DW042 ROOM 262	P1	Copper	ND
Lead	11	02DW042 ROOM 262	P2	Copper	ND
Lead	9	02DW042 ROOM 262	F01	Copper	ND
Lead	6	02DW042 ROOM 262	F02	Copper	ND
Lead	3	01WC043 MAIN CORRIDOR	P1	Copper	400
Lead	4	01WC043 MAIN CORRIDOR	P2	Copper	410
Lead	6	01WC043 MAIN CORRIDOR	F01	Copper	130
Lead	2	01WC043 MAIN CORRIDOR	F02	Copper	100

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.

Doyle Ryder School
November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	48	01KC044 PRINCIPAL RESTROOM	P1	Copper	170
Lead	30	01KC044 PRINCIPAL RESTROOM	P2	Copper	140
Lead	3	01KC044 PRINCIPAL RESTROOM	F01	Copper	70
Lead	2	01KC044 PRINCIPAL RESTROOM	F02	Copper	70
Lead	22	01CF047 ROOM 111	P1	Copper	260
Lead	3	01CF047 ROOM 111	P2	Copper	310
Lead	2	01CF047 ROOM 111	F01	Copper	170
Lead	ND	01CF047 ROOM 111	F02	Copper	90
Lead	21	01KC048 ROOM 110	P1	Copper	150
Lead	23	01KC048 ROOM 110	P2	Copper	150
Lead	5	01KC048 ROOM 110	F01	Copper	110
Lead	5	01KC048 ROOM 110	F02	Copper	90
Lead	11	01KC049 ROOM 110	P1	Copper	280
Lead	21	01KC049 ROOM 110	P2	Copper	150
Lead	4	01KC049 ROOM 110	F01	Copper	90
Lead	10	01KC049 ROOM 110	F02	Copper	110
Lead	4	02WC050 RIGHT OF ELEVATOR	P1	Copper	180
Lead	4	02WC050 RIGHT OF ELEVATOR	P2	Copper	200
Lead	6	02WC050 RIGHT OF ELEVATOR	F01	Copper	210
Lead	5	02WC050 RIGHT OF ELEVATOR	F02	Copper	150
Lead	8	02WC051 RIGHT OF ELEVATOR	P1	Copper	160
Lead	5	02WC051 RIGHT OF ELEVATOR	P2	Copper	150
Lead	5	02WC051 RIGHT OF ELEVATOR	F01	Copper	140
Lead	5	02WC051 RIGHT OF ELEVATOR	F02	Copper	120
Lead	11	02KC052 TEACHER'S LOUNGE	P1	Copper	270
Lead	20	02KC052 TEACHER'S LOUNGE	P2	Copper	170
Lead	6	02KC052 TEACHER'S LOUNGE	F01	Copper	110
Lead	1	02KC052 TEACHER'S LOUNGE	F02	Copper	70
Lead	10	03WC053 RIGHT OF ELEVATOR	P1	Copper	280
Lead	7	03WC053 RIGHT OF ELEVATOR	P2	Copper	320
Lead	6	03WC053 RIGHT OF ELEVATOR	F01	Copper	260
Lead	4	03WC053 RIGHT OF ELEVATOR	F02	Copper	150
Lead	6	03WC054 RIGHT OF ELEVATOR	P1	Copper	160
Lead	5	03WC054 RIGHT OF ELEVATOR	P2	Copper	160
Lead	4	03WC054 RIGHT OF ELEVATOR	F01	Copper	140
Lead	2	03WC054 RIGHT OF ELEVATOR	F02	Copper	120
Lead	3	03KC055 KITCHEN	P1	Copper	120
Lead	7	03KC055 KITCHEN	P2	Copper	140
Lead	5	03KC055 KITCHEN	F01	Copper	90
Lead	1	03KC055 KITCHEN	F02	Copper	70
Lead	2	03KC056 KITCHEN	P1	Copper	120

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.

Doyle Ryder School
November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	03KC056 KITCHEN	P2	Copper	80
Lead	3	03KC056 KITCHEN	F01	Copper	70
Lead	1	03KC056 KITCHEN	F02	Copper	70
Lead	5	01CF001 ROOM 159	CA1	Copper	90
Lead	1	01CF001 ROOM 159	CA2	Copper	60
Lead	ND	01CF001 ROOM 159	CA3	Copper	ND
Lead	ND	01CF001 ROOM 159	CA4	Copper	ND
Lead	ND	01CF001 ROOM 159	CA5	Copper	ND
Lead	ND	01CF001 ROOM 159	CA6	Copper	ND
Lead	ND	01CF001 ROOM 159	CA7	Copper	ND
Lead	ND	01CF001 ROOM 159	CA8	Copper	ND
Lead	ND	01CF001 ROOM 159	CA9	Copper	ND
Lead	ND	01CF001 ROOM 159	CA10	Copper	ND
Lead	8	01CF018-ROOM 155	CB1	Copper	130
Lead	3	01CF018 ROOM 155	CB2	Copper	70
Lead	3	01CF018 ROOM 155	CB3	Copper	70
Lead	2	01CF018 ROOM 155	CB4	Copper	70
Lead	2	01CF018 ROOM 155	CB5	Copper	60
Lead	2	01CF018 ROOM 155	CB6	Copper	60
Lead	2	01CF018 ROOM 155	CB7	Copper	60
Lead	2	01CF018 ROOM 155	CB8	Copper	60
Lead	2	01CF018 ROOM 155	CB9	Copper	60
Lead	2	01CF018 ROOM 155	CB10	Copper	60
Lead	13	02CF030 ROOM 254	CC1	Copper	80
Lead	3	02CF030 ROOM 254	CC2	Copper	50
Lead	2	02CF030 ROOM 254	CC3	Copper	ND
Lead	2	02CF030 ROOM 254	CC4	Copper	ND
Lead	2	02CF030 ROOM 254	CC5	Copper	ND
Lead	2	02CF030 ROOM 254	CC6	Copper	ND
Lead	2	02CF030 ROOM 254	CC7	Copper	60
Lead	2	02CF030 ROOM 254	CC8	Copper	ND
Lead	1	02CF030 ROOM 254	CC9	Copper	ND
Lead	1	02CF030 ROOM 254	CC10	Copper	ND
Lead	186	02CF039 ROOM 260	CD1	Copper	120
Lead	35	02CF039 ROOM 260	CD2	Copper	80
Lead	15	02CF039 ROOM 260	CD3	Copper	70
Lead	12	02CF039 ROOM 260	CD4	Copper	50
Lead	11	02CF039 ROOM 260	CD5	Copper	ND
Lead	11	02CF039 ROOM 260	CD6	Copper	ND
Lead	10	02CF039 ROOM 260	CD7	Copper	ND
Lead	10	02CF039 ROOM 260	CD8	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.

Doyle Ryder School
November 7, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	10	02CF039 ROOM 260	CD9	Copper	ND
Lead	9	02CF039 ROOM 260	CD10	Copper	ND
Lead	6	02KC052 TEACHER'S LOUNGE	CE1	Copper	110
Lead	3	02KC052 TEACHER'S LOUNGE	CE2	Copper	80
Lead	4	02KC052 TEACHER'S LOUNGE	CE3	Copper	80
Lead	2	02KC052 TEACHER'S LOUNGE	CE4	Copper	70
Lead	1	02KC052 TEACHER'S LOUNGE	CE5	Copper	50
Lead	1	02KC052 TEACHER'S LOUNGE	CE6	Copper	50
Lead	ND	02KC052 TEACHER'S LOUNGE	CE7	Copper	ND
Lead	1	02KC052 TEACHER'S LOUNGE	CE8	Copper	50
Lead	ND	02KC052 TEACHER'S LOUNGE	CE9	Copper	ND
Lead	ND	02KC052 TEACHER'S LOUNGE	CE10	Copper	ND
Lead	10	01KC049 ROOM 110	CF1	Copper	120
Lead	11	01KC049 ROOM 110	CF2	Copper	130
Lead	11	01KC049 ROOM 110	CF3	Copper	130
Lead	11	01KC049 ROOM 110	CF4	Copper	130
Lead	10	01KC049 ROOM 110	CF5	Copper	130
Lead	9	01KC049 ROOM 110	CF6	Copper	130
Lead	9	01KC049 ROOM 110	CF7	Copper	130
Lead	7	01KC049 ROOM 110	CF8	Copper	120
Lead	6	01KC049 ROOM 110	CF9	Copper	120
Lead	5	01KC049 ROOM 110	CF10	Copper	110

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.

Doyle Ryder Report

March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	01CF001	P1	Copper	260
Lead	1	01CF001	P2	Copper	190
Lead	ND	01CF001	F01	Copper	60
Lead	ND	01CF001	F02	Copper	ND
Lead	2	01DW002	P1	Copper	300
Lead	ND	01DW002	P2	Copper	ND
Lead	ND	01DW002	F01	Copper	ND
Lead	ND	01DW002	F02	Copper	ND
Lead	3	01CF003	P1	Copper	280
Lead	ND	01CF003	P2	Copper	90
Lead	ND	01CF003	F01	Copper	ND
Lead	ND	01CF003	F02	Copper	ND
Lead	18	01DW004	P1	Copper	320
Lead	ND	01DW004	P2	Copper	ND
Lead	ND	01DW004	F01	Copper	ND
Lead	ND	01DW004	F02	Copper	ND
Lead	2	01WC005	P1	Copper	1,050
Lead	21	01WC005	P2	Copper	440
Lead	3	01WC005	F01	Copper	220
Lead	ND	01WC005	F02	Copper	80
Lead	2	01WC006	P1	Copper	1,370
Lead	35	01WC006	P2	Copper	540
Lead	ND	01WC006	F01	Copper	70
Lead	ND	01WC006	F02	Copper	ND
Lead	7	01DW007	P1	Copper	360
Lead	5	01DW007	P2	Copper	180
Lead	4	01DW007	F01	Copper	50
Lead	ND	01DW007	F02	Copper	ND
Lead	4	01CF008	P1	Copper	170
Lead	ND	01CF008	P2	Copper	ND
Lead	ND	01CF008	F01	Copper	ND
Lead	ND	01CF008	F02	Copper	ND
Lead	2	01CF009	P1	Copper	280
Lead	2	01CF009	P2	Copper	200
Lead	ND	01CF009	F01	Copper	90
Lead	ND	01CF009	F02	Copper	90
Lead	2	01DW010	P1	Copper	250
Lead	3	01DW010	P2	Copper	80
Lead	2	01DW010	F01	Copper	60
Lead	ND	01DW010	F02	Copper	ND
Lead	3	01DW011	P1	Copper	230
Lead	2	01DW011	P2	Copper	60
Lead	ND	01DW011	F01	Copper	ND

Doyle Ryder Report
March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	01DW011	F02	Copper	ND
Lead	ND	01CF012	P1	Copper	170
Lead	ND	01CF012	P2	Copper	60
Lead	ND	01CF012	F01	Copper	ND
Lead	ND	01CF012	F02	Copper	ND
Lead	5	01DW013	P1	Copper	230
Lead	4	01DW013	P2	Copper	140
Lead	ND	01DW013	F01	Copper	ND
Lead	ND	01DW013	F02	Copper	ND
Lead	62	01CF014	P1	Copper	120
Lead	69	01CF014	P2	Copper	ND
Lead	ND	01CF014	F01	Copper	ND
Lead	ND	01CF014	F02	Copper	ND
Lead	7	01DW015	P1	Copper	200
Lead	ND	01DW015	P2	Copper	ND
Lead	ND	01DW015	F01	Copper	ND
Lead	ND	01DW015	F02	Copper	ND
Lead	40	01CF016	P1	Copper	130
Lead	3	01CF016	P2	Copper	ND
Lead	ND	01CF016	F01	Copper	ND
Lead	ND	01CF016	F02	Copper	ND
Lead	23	0DW017	P1	Copper	180
Lead	1	0DW017	P2	Copper	ND
Lead	ND	0DW017	F01	Copper	ND
Lead	ND	0DW017	F02	Copper	ND
Lead	2	01CF018	P1	Copper	150
Lead	ND	01CF018	P2	Copper	ND
Lead	ND	01CF018	F01	Copper	ND
Lead	ND	01CF018	F02	Copper	ND
Lead	7	02CF019	P1	Copper	200
Lead	10	02CF019	P2	Copper	160
Lead	ND	02CF019	F01	Copper	ND
Lead	ND	02CF019	F02	Copper	ND
Lead	ND	02DW020	P1	Copper	150
Lead	ND	02DW020	P2	Copper	ND
Lead	ND	02DW020	F01	Copper	ND
Lead	ND	02DW020	F02	Copper	ND
Lead	21	02CF021	P1	Copper	200
Lead	4	02CF021	P2	Copper	90
Lead	ND	02CF021	F01	Copper	ND
Lead	ND	02CF021	F02	Copper	ND
Lead	ND	02DW022	P1	Copper	170
Lead	ND	02DW022	P2	Copper	ND

Doyle Ryder Report
March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	02DW022	F01	Copper	ND
Lead	ND	02DW022	F02	Copper	ND
Lead	1	02DW023	P1	Copper	270
Lead	2	02DW023	P2	Copper	ND
Lead	2	02DW023	F01	Copper	ND
Lead	ND	02DW023	F02	Copper	ND
Lead	ND	02CF024	P1	Copper	90
Lead	ND	02CF024	P2	Copper	ND
Lead	ND	02CF024	F01	Copper	ND
Lead	ND	02CF024	F02	Copper	ND
Lead	135	02DW025	P1	Copper	798
Lead	1	02DW025	P2	Copper	60
Lead	ND	02DW025	F01	Copper	ND
Lead	ND	02DW025	F02	Copper	ND
Lead	4	02CF026	P1	Copper	350
Lead	4	02CF026	P2	Copper	240
Lead	5	02CF026	F01	Copper	150
Lead	ND	02CF026	F02	Copper	80
Lead	2	02WC027	P1	Copper	1,080
Lead	13	02WC027	P2	Copper	460
Lead	2	02WC027	F01	Copper	70
Lead	ND	02WC027	F02	Copper	50
Lead	1	02WC028	P1	Copper	1,070
Lead	8	02WC028	P2	Copper	510
Lead	ND	02WC028	F01	Copper	60
Lead	ND	02WC028	F02	Copper	50
Lead	9	02DW029	P1	Copper	260
Lead	13	02DW029	P2	Copper	120
Lead	ND	02DW029	F01	Copper	ND
Lead	ND	02DW029	F02	Copper	ND
Lead	2	02CF030	P1	Copper	120
Lead	ND	02CF030	P2	Copper	ND
Lead	ND	02CF030	F01	Copper	ND
Lead	ND	02CF030	F02	Copper	ND
Lead	12	02DW031	P1	Copper	240
Lead	10	02DW031	P2	Copper	100
Lead	ND	02DW031	F01	Copper	ND
Lead	ND	02DW031	F02	Copper	ND
Lead	5	02DW032	P1	Copper	110
Lead	ND	02DW032	P2	Copper	ND
Lead	ND	02DW032	F01	Copper	ND
Lead	ND	02DW032	F02	Copper	ND
Lead	107	02DW033	P1	Copper	250

Doyle Ryder Report
March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	7	02DW033	P2	Copper	160
Lead	2	02DW033	F01	Copper	90
Lead	1	02DW033	F02	Copper	80
Lead	26	02CF034	P1	Copper	240
Lead	1	02CF034	P2	Copper	80
Lead	ND	02CF034	F01	Copper	ND
Lead	ND	02CF034	F02	Copper	ND
Lead	6	02DW035	P1	Copper	390
Lead	5	02DW035	P2	Copper	150
Lead	1	02DW035	F01	Copper	ND
Lead	ND	02DW035	F02	Copper	ND
Lead	75	02CF036	P1	Copper	180
Lead	ND	02CF036	P2	Copper	ND
Lead	ND	02CF036	F01	Copper	ND
Lead	ND	02CF036	F02	Copper	ND
Lead	14	01DW037	P1	Copper	310
Lead	3	01DW037	P2	Copper	340
Lead	2	01DW037	F01	Copper	100
Lead	ND	01DW037	F02	Copper	ND
Lead	2	01DW038	P1	Copper	90
Lead	ND	01DW038	P2	Copper	ND
Lead	ND	01DW038	F01	Copper	ND
Lead	ND	01DW038	F02	Copper	ND
Lead	520	02CF039	P1	Copper	180
Lead	251	02CF039	P2	Copper	250
Lead	54	02CF039	F01	Copper	140
Lead	3	02CF039	F02	Copper	ND
Lead	407	02DW040	P1	Copper	130
Lead	21	02DW040	P2	Copper	ND
Lead	6	02DW040	F01	Copper	ND
Lead	3	02DW040	F02	Copper	ND
Lead	1515	02CF041	P1	Copper	210
Lead	478	02CF041	P2	Copper	160
Lead	6	02CF041	F01	Copper	ND
Lead	2	02CF041	F02	Copper	ND
Lead	521	02DW042	P1	Copper	80
Lead	7	02DW042	P2	Copper	ND
Lead	3	02DW042	F01	Copper	ND
Lead	2	02DW042	F02	Copper	ND
Lead	ND	01WC043	P1	Copper	1,560
Lead	3	01WC043	P2	Copper	510
Lead	ND	01WC043	F01	Copper	130
Lead	ND	01WC043	F02	Copper	110

Doyle Ryder Report
March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	6	01KC044	P1	Copper	240
Lead	38	01KC044	P2	Copper	190
Lead	31	01KC044	F01	Copper	140
Lead	3	01KC044	F02	Copper	80
Lead	ND	01WC045	P1	Copper	150
Lead	ND	01WC045	P2	Copper	280
Lead	ND	01WC045	F01	Copper	270
Lead	ND	01WC045	F02	Copper	120
Lead	ND	01WC046	P1	Copper	120
Lead	ND	01WC046	P2	Copper	130
Lead	ND	01WC046	F01	Copper	120
Lead	ND	01WC046	F02	Copper	90
Lead	ND	01CF047	P1	Copper	270
Lead	ND	01CF047	P2	Copper	330
Lead	ND	01CF047	F01	Copper	130
Lead	ND	01CF047	F02	Copper	80
Lead	3	01KC048	P1	Copper	160
Lead	3	01KC048	P2	Copper	90
Lead	1	01KC048	F01	Copper	70
Lead	1	01KC048	F02	Copper	70
Lead	2	01KC049	P1	Copper	160
Lead	5	01KC049	P2	Copper	100
Lead	2	01KC049	F01	Copper	70
Lead	1	01KC049	F02	Copper	70
Lead	43	02WC050	P1	Copper	510
Lead	25	02WC050	P2	Copper	560
Lead	27	02WC050	F01	Copper	500
Lead	8	02WC050	F02	Copper	220
Lead	21	02KC051	P1	Copper	340
Lead	7	02KC051	P2	Copper	230
Lead	5	02KC051	F01	Copper	180
Lead	3	02KC051	F02	Copper	120
Lead	3	02KC052	P1	Copper	290
Lead	5	02KC052	P2	Copper	230
Lead	3	02KC052	F01	Copper	160
Lead	1	02KC052	F02	Copper	90
Lead	2	03WC053	P1	Copper	260
Lead	1	03WC053	P2	Copper	390
Lead	3	03WC053	F01	Copper	340
Lead	2	03WC053	F02	Copper	160
Lead	11	03KC054	P1	Copper	180
Lead	2	03KC054	P2	Copper	160
Lead	2	03KC054	F01	Copper	140

Doyle Ryder Report
March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	1	03KC054	F02	Copper	110
Lead	5	03KC055	P1	Copper	250
Lead	6	03KC055	P2	Copper	150
Lead	3	03KC055	F01	Copper	70
Lead	ND	03KC055	F02	Copper	60
Lead	1	03CK056	P1	Copper	160
Lead	ND	03CK056	P2	Copper	70
Lead	ND	03CK056	F01	Copper	60
Lead	ND	03CK056	F02	Copper	50
Lead	1	01CF001	CA1	Copper	120
Lead	ND	01CF001	CA2	Copper	80
Lead	ND	01CF001	CA3	Copper	70
Lead	ND	01CF001	CA4	Copper	70
Lead	ND	01CF001	CA5	Copper	50
Lead	ND	01CF001	CA6	Copper	ND
Lead	ND	01CF001	CA7	Copper	ND
Lead	ND	01CF001	CA8	Copper	ND
Lead	ND	01CF001	CA9	Copper	ND
Lead	ND	01CF001	CA10	Copper	ND
Lead	2	01CF018	CB1	Copper	140
Lead	ND	01CF018	CB2	Copper	80
Lead	ND	01CF018	CB3	Copper	70
Lead	ND	01CF018	CB4	Copper	60
Lead	ND	01CF018	CB5	Copper	60
Lead	ND	01CF018	CB6	Copper	60
Lead	ND	01CF018	CB7	Copper	60
Lead	ND	01CF018	CB8	Copper	60
Lead	ND	01CF018	CB9	Copper	60
Lead	ND	01CF018	CB10	Copper	60
Lead	150	01CF014	CC1	Copper	120
Lead	56	01CF014	CC2	Copper	80
Lead	58	01CF014	CC3	Copper	80
Lead	ND	01CF014	CC4	Copper	70
Lead	ND	01CF014	CC5	Copper	70
Lead	14	01CF014	CC6	Copper	70
Lead	ND	01CF014	CC7	Copper	70
Lead	ND	01CF014	CC8	Copper	70
Lead	2	01CF014	CC9	Copper	70
Lead	ND	01CF014	CC10	Copper	70
Lead	ND	01WC043	CD1	Copper	240
Lead	ND	01WC043	CD2	Copper	110
Lead	1	01WC043	CD3	Copper	110
Lead	ND	01WC043	CD4	Copper	110

Doyle Ryder Report

March 19, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	01WC043	CD5	Copper	110
Lead	ND	01WC043	CD6	Copper	110
Lead	ND	01WC043	CD7	Copper	100
Lead	ND	01WC043	CD8	Copper	100
Lead	ND	01WC043	CD9	Copper	100
Lead	ND	01WC043	CD10	Copper	100
Lead	3	02KC052	CE1	Copper	130
Lead	2	02KC052	CE2	Copper	100
Lead	2	02KC052	CE3	Copper	90
Lead	2	02KC052	CE4	Copper	80
Lead	ND	02KC052	CE5	Copper	80
Lead	ND	02KC052	CE6	Copper	70
Lead	ND	02KC052	CE7	Copper	70
Lead	ND	02KC052	CE8	Copper	60
Lead	ND	02KC052	CE9	Copper	60
Lead	ND	02KC052	CE10	Copper	60
Lead	2	01KC049	CF1	Copper	80
Lead	1	01KC049	CF2	Copper	70
Lead	1	01KC049	CF3	Copper	70
Lead	1	01KC049	CF4	Copper	70
Lead	1	01KC049	CF5	Copper	70
Lead	1	01KC049	CF6	Copper	70
Lead	1	01KC049	CF7	Copper	70
Lead	1	01KC049	CF8	Copper	70
Lead	1	01KC049	CF9	Copper	70
Lead	2	01KC049	CF10	Copper	80

Doyle Ryder
October 22, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	01CF001 ROOM 159	P1	Copper	ND
Lead	ND	001DW002 ROOM 159	P1	Copper	ND
Lead	ND	001CF003 ROOM 160	P1	Copper	ND
Lead	ND	001DW004 ROOM 160	P1	Copper	ND
Lead	ND	01WC005 FIRST FLOOR RESTROOM	P1	Copper	390
Lead	ND	01WC006 FIRST FLOOR RESTROOM	P1	Copper	460
Lead	ND	01DW007 ROOM 156	P1	Copper	ND
Lead	ND	01CF008 ROOM 156	P1	Copper	ND
Lead	ND	01CF009 ROOM 154	P1	Copper	ND
Lead	ND	01DW010 ROOM 154	P1	Copper	ND
Lead	ND	01DW011 ROOM 153	P1	Copper	ND
Lead	ND	01CF012 ROOM 153	P1	Copper	ND
Lead	ND	01DW013 ROOM 152	P1	Copper	ND
Lead	ND	01CF014 ROOM 152	P1	Copper	ND
Lead	ND	01DW015 ROOM 151	P1	Copper	ND
Lead	ND	01CF016 ROOM 151	P1	Copper	ND
Lead	ND	01DW017 ROOM 155	P1	Copper	ND
Lead	ND	01CF018 ROOM 155	P1	Copper	ND
Lead	ND	02CF019 ROOM 258	P1	Copper	ND
Lead	ND	02DW020 ROOM 258	P1	Copper	ND
Lead	ND	02CF021 ROOM 257	P1	Copper	ND
Lead	ND	02DW022 ROOM 257	P1	Copper	ND
Lead	ND	02DW023 ROOM 256	P1	Copper	ND
Lead	ND	02CF024 ROOM 256	P1	Copper	ND
Lead	ND	02DW025 ROOM 259	P1	Copper	ND
Lead	ND	02CF026 ROOM 259	P1	Copper	ND
Lead	ND	02WC027 SECOND FLOOR RESTROOM	P1	Copper	520
Lead	ND	02WC028 SECOND FLOOR RESTROOM	P1	Copper	540
Lead	ND	02DW029 ROOM 254	P1	Copper	ND
Lead	ND	02CF030 ROOM 254	P1	Copper	ND
Lead	ND	02DW031 ROOM 253	P1	Copper	ND
Lead	ND	02DW033 ROOM 252	P1	Copper	ND
Lead	ND	02CF034 ROOM 252	P1	Copper	ND
Lead	ND	02DW035 ROOM 251	P1	Copper	ND
Lead	ND	02CF036 ROOM 251	P1	Copper	ND
Lead	ND	01DW037 GYM FIRST FLOOR	P1	Copper	ND
Lead	ND	01DW038 GYM FIRST FLOOR	P1	Copper	ND
Lead	ND	02CF039 ROOM 260	P1	Copper	ND
Lead	1	02DW040 ROOM 260	P1	Copper	ND
Lead	ND	02CF041 ROOM 262	P1	Copper	ND
Lead	4	02DW042 ROOM 262	P1	Copper	ND
Lead	ND	01WC043 MAIN CORRIDOR	P1	Copper	300

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.

Doyle Ryder
October 22, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	01KC044 OFFICE KITCHEN	P1	Copper	ND
Lead	ND	01WC045 HALL	P1	Copper	90
Lead	ND	01WC046 HALL	P1	Copper	100
Lead	ND	01KC048 ROOM 110	P1	Copper	ND
Lead	ND	02WC050 RIGHT OF ELEVATOR	P1	Copper	180
Lead	ND	02WC051 RIGHT OF ELEVATOR	P1	Copper	160
Lead	ND	02KC052 TEACHER'S LOUNGE	P1	Copper	ND
Lead	ND	03WC053 RIGHT OF ELEVATOR	P1	Copper	100
Lead	ND	03WC054 RIGHT OF ELEVATOR	P1	Copper	90
Lead	2	03KC055 KITCHEN	P1	Copper	150
Lead	ND	03KC056 KITCHEN	P1	Copper	50