

# POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

New Beginnings AFC



August 12, 2016

## INTRODUCTION

During the month of April, 2016, the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at the New Beginnings AFC. 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 material from the building's water supply system.

On Saturday, May 21, 2016, the Department of Environmental Quality conducted a post-fixture sampling assessment of the plumbing system at the facility.

### Water Main Description

An inside investigation of the service line yielded a three quarter inch copper service main.

## SAMPLING METHODS

### Fixture Sampling

There are nine drinking water fixtures that were identified at the facility. 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

- The standard 'Fixture Sampling Method' with the minimum six-hour stagnation period was not possible due to the residents' consistent

water use needs. Sampling is representative of usual water use at the facility.

- Nine fixtures, 36 samples, were collected and sent to the lab for analysis.
- Three fixtures were selected to test the deeper part of the plumbing system. For this method 30 samples were collected and sent to the lab for analysis.

## SAMPLING RESULTS

### Post-Fixture Replacement

May 21, 2016  
Of the 66 samples:

- Lead Range: Non-Detected (ND) to 5 parts per billion (ppb)
- Copper Range: ND to 360 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	Lead Result (ppb)	Sample Description	Site Code	Copper	Copper Result (ppb)
Lead	3	0BBF001 BASEMENT BATH	P1	Copper	100
Lead	5	0BBF001 BASEMENT BATH	P2	Copper	140
Lead	ND	0BBF001 BASEMENT BATH	F01	Copper	ND
Lead	ND	0BBF001 BASEMENT BATH	F02	Copper	ND
Lead	2	0BKC002 BASEMENT	P1	Copper	180
Lead	ND	0BKC002 BASEMENT	P2	Copper	50
Lead	ND	0BKC002 BASEMENT	F01	Copper	ND
Lead	ND	0BKC002 BASEMENT	F02	Copper	ND
Lead	ND	01BF003 1ST FLOOR BATH	P1	Copper	ND
Lead	ND	01BF003 1ST FLOOR BATH	P2	Copper	ND
Lead	ND	01BF003 1ST FLOOR BATH	F01	Copper	ND
Lead	ND	01BF003 1ST FLOOR BATH	F02	Copper	ND
Lead	ND	01KC004 1ST FLOOR	P1	Copper	ND
Lead	ND	01KC004 1ST FLOOR	P2	Copper	ND
Lead	ND	01KC004 1ST FLOOR	F01	Copper	ND
Lead	ND	01KC004 1ST FLOOR	F02	Copper	ND
Lead	ND	01BF005 1ST FLOOR BATH	P1	Copper	100
Lead	ND	01BF005 1ST FLOOR BATH	P2	Copper	70
Lead	ND	01BF005 1ST FLOOR BATH	F01	Copper	ND
Lead	ND	01BF005 1ST FLOOR BATH	F02	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	P1	Copper	80
Lead	ND	02BF006 2ND FLOOR BATH	P2	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	F01	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	F02	Copper	ND
Lead	ND	02BF007 2ND FLOOR BATH	P1	Copper	ND
Lead	ND	02BF007 2ND FLOOR BATH	P2	Copper	ND
Lead	ND	02BF007 2ND FLOOR BATH	F01	Copper	ND
Lead	ND	02BF007 2ND FLOOR BATH	F02	Copper	ND
Lead	ND	03BF008 3RD FLOOR BATH	P1	Copper	130
Lead	1	03BF008 3RD FLOOR BATH	P2	Copper	160
Lead	ND	03BF008 3RD FLOOR BATH	F01	Copper	50
Lead	ND	03BF008 3RD FLOOR BATH	F02	Copper	ND
Lead	2	03KC009 3RD FLOOR	P1	Copper	360
Lead	ND	03KC009 3RD FLOOR	P2	Copper	200
Lead	ND	03KC009 3RD FLOOR	F01	Copper	ND
Lead	ND	03KC009 3RD FLOOR	F02	Copper	ND
Lead	ND	0BKC002 BASEMENT	A1	Copper	ND
Lead	ND	0BKC002 BASEMENT	A2	Copper	ND
Lead	ND	0BKC002 BASEMENT	A3	Copper	ND
Lead	ND	0BKC002 BASEMENT	A4	Copper	ND
Lead	ND	0BKC002 BASEMENT	A5	Copper	ND
Lead	ND	0BKC002 BASEMENT	A6	Copper	ND
Lead	ND	0BKC002 BASEMENT	A7	Copper	ND
Lead	ND	0BKC002 BASEMENT	A8	Copper	ND
Lead	ND	0BKC002 BASEMENT	A9	Copper	ND
Lead	ND	0BKC002 BASEMENT	A10	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B1	Copper	ND

- The result of non-detected (ND) means; for lead the amount in water is less than 1 pbb, for copper the amount in water is less than 50 pbb.

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Lead	Lead Result (ppb)	Sample Description	Site Code	Copper	Copper Result (ppb)
Lead	ND	01KC004 1ST FLOOR	B2	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B3	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B4	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B5	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B6	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B7	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B8	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B9	Copper	ND
Lead	ND	01KC004 1ST FLOOR	B10	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C1	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C2	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C3	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C4	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C5	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C6	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C7	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C8	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C9	Copper	ND
Lead	ND	03KC009 3RD FLOOR	C10	Copper	ND

- The result of non-detected (ND) means; for lead the amount in water is less than 1 pbb, for copper the amount in water is less than 50 pbb.