

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

JJS AFC



September 21, 2016

INTRODUCTION

During the month of May, 2016, the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at JJS 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 inspection from inside the building yielded a one inch copper main and three-fourth inch copper line distribution system.

SAMPLING METHODS

Fixture Sampling

There are eight 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

- Thirty-two samples from eight fixtures were collected and sent to the lab for analysis.

- Five fixtures were selected to test the deeper part of the plumbing system. For this method 50 samples were collected and sent to the lab for analysis.
- The standard 'Fixture Sampling Method' with the minimum six-hour stagnation period was not possible for this facility due to the residents' consistent water use needs. Sampling is representative of usual water use at the facility.

SAMPLING RESULTS

Post-Fixture Replacement

May 21, 2016
Of the 82 samples:

- Lead Range: Non-Detected (ND) to 54 parts per billion (ppb)
- Copper Range: ND to 170 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	ND	01KC001 LEFT	P1	Copper	ND
Lead	ND	01KC001 LEFT	P2	Copper	ND
Lead	ND	01KC001 LEFT	F01	Copper	ND
Lead	ND	01KC001 LEFT	F02	Copper	ND
Lead	ND	01KC002	P1	Copper	60
Lead	ND	01KC002	P2	Copper	ND
Lead	ND	01KC002	F01	Copper	ND
Lead	ND	01KC002	F02	Copper	ND
Lead	ND	01BF003	P1	Copper	70
Lead	ND	01BF003	P2	Copper	ND
Lead	ND	01BF003	F01	Copper	ND
Lead	ND	01BF003	F02	Copper	ND
Lead	ND	01BF004	P1	Copper	ND
Lead	ND	01BF004	P2	Copper	ND
Lead	ND	01BF004	F01	Copper	ND
Lead	ND	01BF004	F02	Copper	ND
Lead	ND	02BF005	P1	Copper	60
Lead	ND	02BF005	P2	Copper	ND
Lead	ND	02BF005	F01	Copper	ND
Lead	ND	02BF005	F02	Copper	ND
Lead	ND	02BF006	P1	Copper	160
Lead	ND	02BF006	P2	Copper	170
Lead	ND	02BF006	F01	Copper	60
Lead	ND	02BF006	F02	Copper	ND
Lead	ND	02BF007	P1	Copper	ND
Lead	ND	02BF007	P2	Copper	ND
Lead	ND	02BF007	F01	Copper	ND
Lead	ND	02BF007	F02	Copper	ND
Lead	17	01BF008	P1	Copper	120
Lead	40	01BF008	P2	Copper	110
Lead	1	01BF008	F01	Copper	ND
Lead	2	01BF008	F02	Copper	ND
Lead	ND	01KC001	C A1	Copper	ND
Lead	ND	01KC001	C A2	Copper	ND
Lead	ND	01KC001	C A3	Copper	ND
Lead	ND	01KC001	C A4	Copper	ND
Lead	ND	01KC001	C A5	Copper	ND
Lead	ND	01KC001	C A6	Copper	ND
Lead	ND	01KC001	C A7	Copper	ND
Lead	ND	01KC001	C A8	Copper	ND
Lead	ND	01KC001	C A9	Copper	ND
Lead	ND	01KC001	C A10	Copper	ND
Lead	ND	01BF003	C B1	Copper	ND
Lead	ND	01BF003	C B2	Copper	ND
Lead	ND	01BF003	C B3	Copper	ND
Lead	ND	01BF003	C B4	Copper	ND
Lead	ND	01BF003	C B5	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.

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Lead	Lead Result (ppb)	Sample Description	Site Code	Copper	Copper Result (ppb)
Lead	ND	01BF003	C B6	Copper	ND
Lead	ND	01BF003	C B7	Copper	ND
Lead	ND	01BF003	C B8	Copper	ND
Lead	ND	01BF003	C B9	Copper	ND
Lead	ND	01BF003	C B10	Copper	ND
Lead	1	02BF005	CC1	Copper	ND
Lead	ND	02BF005	CC 2	Copper	ND
Lead	ND	02BF005	CC3	Copper	ND
Lead	ND	02BF005	CC4	Copper	ND
Lead	ND	02BF005	CC5	Copper	ND
Lead	ND	02BF005	CC6	Copper	ND
Lead	ND	02BF005	CC7	Copper	ND
Lead	ND	02BF005	CC8	Copper	ND
Lead	ND	02BF005	CC9	Copper	ND
Lead	ND	02BF005	CC10	Copper	ND
Lead	ND	02BF007	CD1	Copper	ND
Lead	ND	02BF007	CD2	Copper	ND
Lead	ND	02BF007	CD3	Copper	ND
Lead	ND	02BF007	CD4	Copper	ND
Lead	ND	02BF007	CD5	Copper	ND
Lead	ND	02BF007	CD6	Copper	ND
Lead	ND	02BF007	CD7	Copper	ND
Lead	ND	02BF007	CD8	Copper	ND
Lead	ND	02BF007	CD9	Copper	ND
Lead	ND	02BF007	CD10	Copper	ND
Lead	54	01BF008	CE1	Copper	ND
Lead	4	01BF008	CE2	Copper	ND
Lead	5	01BF008	CE3	Copper	ND
Lead	4	01BF008	CE4	Copper	ND
Lead	4	01BF008	CE5	Copper	ND
Lead	6	01BF008	CE6	Copper	ND
Lead	2	01BF008	CE7	Copper	ND
Lead	4	01BF008	CE8	Copper	ND
Lead	2	01BF008	CE9	Copper	ND
Lead	2	01BF008	CE10	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.