

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Bridon's Child Development Center



September 22, 2016

INTRODUCTION

During the month of May, 2016, the Department of Licensing and Regulatory Affairs (DLARA) completed replacement of drinking water fixtures at Bridon's Child Development Center. 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.

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

On Friday, July 22, 2016, the Department of Environmental Quality conducted a post-fixture sampling assessment of the plumbing system at the facility.

SAMPLING METHODS

Fixture Sampling

There are five 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

- Twenty samples from five fixtures were collected and sent to the lab for analysis.

- Thirty samples were collected from three specific fixtures and sent to the lab for analysis for deeper plumbing assessment.

SAMPLING RESULTS

Post-Fixture Replacement

July 22, 2016

Of the 50 samples:

- Lead Range: All samples were Non-Detected (ND)
- Copper Range: ND to 170 parts per billion (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	ND	LLBF001 BOY`S RESTROOM	P1	Copper	60
Lead	ND	LLBF001 BOY`S RESTROOM	P2	Copper	110
Lead	ND	LLBF001 BOY`S RESTROOM	F01	Copper	60
Lead	ND	LLBF001 BOY`S RESTROOM	F02	Copper	60
Lead	ND	LLBF002 GIRL`S RESTROOM	P1	Copper	80
Lead	ND	LLBF002 GIRL`S RESTROOM	P2	Copper	130
Lead	ND	LLBF002 GIRL`S RESTROOM	F01	Copper	70
Lead	ND	LLBF002 GIRL`S RESTROOM	F02	Copper	80
Lead	ND	LLBF003 GIRL`S RESTROOM	P1	Copper	90
Lead	ND	LLBF003 GIRL`S RESTROOM	P2	Copper	170
Lead	ND	LLBF003 GIRL`S RESTROOM	F01	Copper	60
Lead	ND	LLBF003 GIRL`S RESTROOM	F02	Copper	ND
Lead	ND	LLKC004	P1	Copper	120
Lead	ND	LLKC004	P2	Copper	130
Lead	ND	LLKC004	F01	Copper	130
Lead	ND	LLKC004	F02	Copper	ND
Lead	ND	LLCF005	P1	Copper	110
Lead	ND	LLCF005	P2	Copper	60
Lead	ND	LLCF005	F01	Copper	50
Lead	ND	LLCF005	F02	Copper	50
Lead	ND	LLBF001 BOY`S RESTROOM	CA1	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA2	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA3	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA4	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA5	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA6	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA7	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA8	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA9	Copper	ND
Lead	ND	LLBF001 BOY`S RESTROOM	CA10	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB1	Copper	60
Lead	ND	LLBF003 GIRL`S RESTROOM	CB2	Copper	50
Lead	ND	LLBF003 GIRL`S RESTROOM	CB3	Copper	50
Lead	ND	LLBF003 GIRL`S RESTROOM	CB4	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB5	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB6	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB7	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB8	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB9	Copper	ND
Lead	ND	LLBF003 GIRL`S RESTROOM	CB10	Copper	ND
Lead	ND	LLCF005	CC1	Copper	70
Lead	ND	LLCF005	CC2	Copper	60
Lead	ND	LLCF005	CC3	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.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	LLCF005	CC4	Copper	50
Lead	ND	LLCF005	CC5	Copper	ND
Lead	ND	LLCF005	CC6	Copper	ND
Lead	ND	LLCF005	CC7	Copper	ND
Lead	ND	LLCF005	CC8	Copper	ND
Lead	ND	LLCF005	CC9	Copper	ND
Lead	ND	LLCF005	CC10	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.