



## Introduction

On Saturday, January 16, 2016, the Department of Licensing and Regulatory Affairs (DLARA) and the Department of Environmental Quality (DEQ), collectively (Team), conducted a sampling assessment of the plumbing system at Eagles Nest Academy to determine any potential lead and/or copper sources within the building.

The Team is in the process of replacing all drinking water fixtures in the school. Once replacements are completed, the Team will return and conduct an additional sampling assessment on the new fixtures.

The results of the January 16, 2016, sampling assessment are found below:

## Water Service Information

An inspection of the water main from inside the building yielded a three-inch ductile iron water main, soldered to a three-inch copper water main.

## Fixtures with Lead Levels Greater Than 15 Parts per Billion

Based on the sampling conducted, the following fixtures were found to have lead water level results greater than 15 parts per billion (ppb).<sup>1</sup>

Location: Drinking Water Bubbler in the Hallway, Near the Gym (DW001)<sup>2</sup>  
Results: P1=24 parts per billion, P2=21 parts per billion  
F01=3 parts per billion, F02=non-detect

Location: Drinking Water Bubbler in Hallway, Near the Gym, (DW002)  
Results: P1=24 parts per billion, P2=1 part per billion  
F01=non-detect, F02=non-detect

Location: Classroom Faucet in the Teachers' Lounge, (CF003)  
Results: P1=6 parts per billion, P2=24 parts per billion  
F01=2 parts per billion, F02=non-detect

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<sup>1</sup> After a 12-hour stagnation period, the Team collected four (4) samples at each of the fixtures identified. Two (2) initial, 125-milliliter samples (P1 and P2), were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third, 125-milliliter sample (F01) was collected. Finally, the water was flushed for another two minutes, and the fourth 125-milliliter sample (F02) was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.

<sup>2</sup> This fixture also has a copper water level over 1.3 parts per million, as reflected on the second page of this document.



### Fixtures with Copper Levels Greater Than 1.3 Parts per Million

Based on the sampling conducted, the following fixture was found to have copper water level results greater than 1.3 parts per million (ppm).<sup>1</sup>

Location: Drinking Water Bubbler in Hallway, Near the Gym (DW001)  
 Results: P1= 0.76 parts per million, P2=1.74 parts per million  
 F01=0.08 parts per million, F02=non-detect

### Consecutive Sampling Results

This consecutive sampling was used to determine the impact of any lead sources located deep in the supply plumbing of the school building. Results of the consecutive sample monitoring are listed in the table below:<sup>3</sup>

Consecutive Sample No.	1	2	3	4	5	6	7	8	9	10
LOCATION	LEAD RESULT (PARTS PER BILLION; ND = NOT-DETECTED)									
Hallway by Gym Drinking Water Bubbler (DW002)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Teachers' Lounge Classroom Faucet (CF003)	1	ND								

<sup>3</sup> The Team collected 1-liter samples. The samples were collected immediately after turning on the tap, and consecutively, without any flushing time in between.

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Sample Number	Analysis (Pb)	Result (mg/L)	Analysis (Cu)	Result (mg/L)	Sample Description	Site Code
LG00116	Lead	0.000	Copper	0.06	DW002 HALL BY GYM	CA1
LG00117	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA2
LG00118	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA3
LG00119	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA4
LG00120	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA5
LG00121	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA6
LG00122	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA7
LG00123	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA8
LG00124	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA9
LG00125	Lead	0.000	Copper	0.00	DW002 HALL BY GYM	CA10
LG00126	Lead	0.001	Copper	0.07	CF003 TEACHERS LOUNGE	CB1
LG00127	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB2
LG00128	Lead	0.000	Copper	0.06	CF003 TEACHER LOUNGE	CB3
LG00129	Lead	0.000	Copper	0.06	CF003 TEACHER LOUNGE	CB4
LG00130	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB5
LG00131	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB6
LG00132	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB7
LG00133	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB8
LG00134	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB9
LG00135	Lead	0.000	Copper	0.06	CF003 TEACHERS LOUNGE	CB10
LG00136	Lead	0.006	Copper	0.36	CF003 TEACHERS LOUNGE	P1
LG00137	Lead	0.024	Copper	0.33	CF003 TEACHERS LOUNGE	P2
LG00138	Lead	0.002	Copper	0.07	CF003 TEACHERS LOUNGE	F01
LG00139	Lead	0.000	Copper	0.06	CF003 TEACHER LOUNGE	F02
LG00140	Lead	0.024	Copper	0.76	DW 001 HALLWAY NEAR GYM	P1
LG00141	Lead	0.021	Copper	1.74	DW 001 HALLWAY NEAR GYM	P2
LG00142	Lead	0.003	Copper	0.08	DW 001 HALLWAY NEAR GYM	F01
LG00143	Lead	0.000	Copper	0.00	DW 001 HALLWAY NEAR GYM	F02
LG00144	Lead	0.024	Copper	0.49	DW 002 HALLWAY NEAR GYM	P1
LG00145	Lead	0.001	Copper	0.08	DW 002 HALLWAY NEAR GYM	P2
LG00146	Lead	0.000	Copper	0.00	DW002 HALLWAY NEAR GYM	F01
LG00147	Lead	0.000	Copper	0.00	DW002 HALLWAY NEAR GYM	F02

Note: Results of "Not Detected" have been converted to a numerical value of zero to allow for ease of sorting.

Results in RED exceed 15 ppb for Lead or 1.3 ppm for Copper

1 ppb = 0.001 mg/L

Sampling Date: January 16, 2016

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