



HUB TESTING LABORATORY, INC.

Environmental Testing and Consulting Service
Certified Woman-owned Business Enterprise (WBE)

June 14, 2016

95 Beaver Street
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Report For: City of Somerville-DPW
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Hub ID: 26300

Date Collected: June 8, 2016

Scope: Follow-up water testing was performed by Hub Testing Laboratory at locations where the initial sample exceeded the EPA recommended standard of 0.020 mg/L. In addition, initial samples were collected from the water fountains located at the public libraries as well as from the water fountains and/or outlets at the child care facility located at the High School. All sample locations were flushed the previous evening and the water was allowed to sit in the plumbing for a period of eight to eighteen hours.

Initial samples were collected from water fountains and/or outlets as a first draw sample in the morning before the building was occupied.

Follow-up samples were collected after a 1 minute flush sample in the morning before the building was occupied.

Six samples were collected as follow-up samples and six samples were collected as initial samples. All samples were returned to the laboratory. Follow-up samples were analyzed for the analyte that exceeded the standard and initial samples were analyzed for lead and copper.

Methodology: Copper was analyzed using EPA 200.7. Lead was analyzed using SM 3113B.

Results from samples collected as follow-up samples:

Hub ID	School	Sample Location	Copper (mg/L)	Lead (mg/L)	Standard/Limit
26300-H16	Somerville H. S.	2 nd Floor, next to Health Care (room 299)	**	0.006	Lead - 0.015 mg/L Copper – 1.3 mg/L
26300-E7	Edgerly	1 st Floor, In front of room 105A	**	0.002	
26300-WSN-7	West Somerville	Classroom sink/fountain room 103	**	0.001	
26300-K13	Kennedy	2 nd Floor, Staff kitchen, room 219	**	0.003	
26300-B3	Brown	Cafeteria left side sink	**	ND	
26300-C5	Cummings	2 nd Floor, room 34, principal office	0.043	**	

** Initial sample did not exceed this analyte and therefore a re-test was not required.

Results from samples collected as initial samples:

Hub ID	Building & Address	Sample Location	Copper (mg/L)	Lead (mg/L)	Standard/Limit	
26300-H36	Somerville H. S. 81 Highland Ave.	Child care bathroom sink (child)	0.077	ND	Copper – 1.3 mg/L Lead - 0.015 mg/L	
26300-H37		Child care bathroom sink (adult)	0.117	0.028		
26300-H38		HS Child care main sink	0.166	ND		
26300-CL1	Central Library 79 Highland Ave.	Basement fountain between bathrooms	0.109	0.004		
26300-CL2		1 st floor fountain between bathrooms	0.07	0.001		
26300-EBL1	East Branch Library 115 Broadway	Stand-alone fountain near bathrooms	0.109	0.025		
No water fountain was identified at the West Branch Library located at 40 College Ave.						

Lab Certification #: MA1118

ND – None Detected

Comments:

A 0.015 mg/L action level has been established by Massachusetts as a maximum contaminate level for public water systems. This is a trigger for treatment rather than an exposure level.

The EPA recommends that schools collect a 250 mL first-draw samples from water fountains and other outlets used for consumption. If initial samples are below 0.020 mg/L then the outlet is safe to use. If the initial samples exceed the 0.020 mg/L then the water fountains and/or outlets should be taken out of service and a follow-up flush sample should be performed. Follow-up flush samples are collected after the water runs for a set period of time.

The results from the follow-up flush sampling performed indicate a reduced lead concentration in all samples. This would indicate that the source of lead is most likely influenced by the fountain and its components. In locations where a sink was the source, an aerator or screen maybe be contributing to the elevated lead levels by allowing debris to build-up. These fountains should remain off-line until remediation can occur.

The majority of results from the initial sampling performed indicate low lead concentrations. However the sample collected from the adult bathroom sink in the child care center located at the High School and the sample collected from the stand-alone located in the East Branch Library near the bathrooms indicated elevated lead concentrations. These fountains should be taken out of service and a follow-up flush sample should be performed.



Susan Boyle, President
Hub Testing Laboratory