

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

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May 16, 2017

Mr. Clifford Nooney
Building and Grounds Supervisor
Guilderland Central School District
6076 State Farm Road
Guilderland, New York 12084

Re: *Lead in Water Sampling and Analysis*
Guilderland Elementary School, Guilderland CSD, Guilderland, NY

Dear Mr. Nooney:

C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. (C.T. Male) has performed the re-sampling of water sources that exceeded the 15.1ppb (15.1ug/l) NYSDOH action limit for lead in the drinking water, in the Guilderland Elementary School building located at 2225 Western Avenue, Guilderland, NY. Remediation activity was performed on the water sources listed below and re-sampling conducted on May 10, 2017. The water sampling was performed per the September 6, 2016 NYSDOH School Potable Water Testing and Standards.

Listed below are the analysis results for the lead in water re-sampling performed. Sixteen (16) samples were collected from this building. The "first draw" water samples were collected in 250 ml bottles from sources (i.e., sink, fountain, etc.) most likely to be a point of water consumption. Analysis was performed using EPA Method 200.5 Determination of Trace Elements in Drinking Water (Atomic Absorption Spectrometry). The NYSDOH goal is to have zero lead in drinking water, however as the lead in water often comes from plumbing sources, the limit for lead in schools is to have no more than 15ppb of lead in any of the water from sampled sources. Results greater than 15.1ppb will require remediation prior to reuse. The laboratory analytical results are attached.

LEAD BULK SAMPLE ANALYSIS RESULTS

<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - GES - 15	Classroom 106 Bathroom	Sink	5.7
GCSD - GES - 16	Reading Room 105	Sink	1.6

*Lead content at or above the NYSDOH level of 15 parts per billion.



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LEAD BULK SAMPLE ANALYSIS RESULTS (cont.)

<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - GES - 18	Classroom 104	Sink	3.7
GCSD - GES - 21	Reading Room 103	Sink	2.7
GCSD - GES - 22	Reading Room 103 Bathroom	Sink	1.1
GCSD - GES - 36	Classroom 501	Sink	70.3
GCSD - GES - 39	Classroom 503	Sink	66.7
GCSD - GES - 40	Classroom 504	Sink	9.2
GCSD - GES - 43	Classroom 505	Sink	5.6
GCSD - GES - 45	Classroom 507	Sink	11.7
GCSD - GES - 46	Classroom 508	Sink	10.8
GCSD - GES - 60	Classroom 606	Sink	11.7
GCSD - GES - 69	Classroom 701	Sink	1.8
GCSD - GES - 77	Classroom 202	Sink	4.4
GCSD - GES - 87	Music Room 406	Sink	33.6
GCSD - GES - 109	Classroom 204	Sink	4.0

*Lead content at or above the NYSDOH level of 15 parts per billion

CONCLUSIONS AND RECOMMENDATIONS

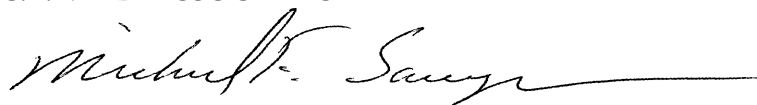
The lead in water analysis results from the following locations and sources exceed the 15.1ppb (15.1ug/l) NYSDOH action limit for lead in the drinking water.

<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - GES - 36	Classroom 501	Sink	70.3
GCSD - GES - 39	Classroom 503	Sink	66.7
GCSD - GES - 87	Music Room 406	Sink	33.6

In each of the areas above, the result for lead in drinking water is greater than 15.1ppb. Per the requirements of the NYSDOH, these sources shall be placed out of use, until such a time as remediation activity has been performed. Public notification to the school community is to be performed, and the exceedance results reported to the NYSDOH.

If you have any questions regarding this report, please contact me at (518) 786-7480.

Sincerely,
C.T. MALE ASSOCIATES



Michael F. Sawyer
Managing Industrial Hygienist