

# 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*  
*Pine Bush Elementary School, Guilderland CSD, Schenectady, 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 Pine Bush Elementary School building located at 3437 Carman Road, Schenectady, NY. Remediation activity was performed on water sources listed below and re-sampling conducted on May 5, 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. Thirty-eight (38) samples were collected from this building. The "first draw" water samples were collected in 250 ml bottles from the 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 - PBE - 13	Special Ed. 100 Bathroom	Sink	1.2
GCSD - PBE - 14	Special Ed. 100	Sink	1.0

\*Lead content at or above the NYSDOH level of 15.1 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 - PBE - 15	Classroom 101	Sink	0.7
GCSD - PBE - 19	Classroom 103	Sink	1.9
GCSD - PBE - 20	Classroom 104	Sink	1.1
GCSD - PBE - 21	Classroom 105	Sink	0.9
GCSD - PBE - 22	Classroom 106	Sink	2.8
GCSD - PBE - 23	Special Ed. 107	Sink	0.5
GCSD - PBE - 24	Special Ed. 200	Sink	1.2
GCSD - PBE - 26	Music Room 502	Sink	1.1
GCSD - PBE - 31	Classroom 202	Sink	1.2
GCSD - PBE - 32	Classroom 203	Sink	1.2
GCSD - PBE - 33	Classroom 204	Sink	1.7
GCSD - PBE - 34	Classroom 205	Sink	0.8
GCSD - PBE - 35	Classroom 206	Sink	0.8
GCSD - PBE - 37	Classroom 207	Sink	0.5
GCSD - PBE - 38	Special Ed. 208	Sink	0.8
GCSD - PBE - 39	Special Ed. 208 Bathroom	Sink	0.9
GCSD - PBE - 48	Classroom 301	Sink	29.5
GCSD - PBE - 50	Music Room 605	Sink	1.2
GCSD - PBE - 57	Kindergarten 400 Bathroom	Sink	1.4
GCSD - PBE - 58	Kindergarten 400	Sink	0.5
GCSD - PBE - 61	Classroom 401 Bathroom	Sink	1.3
GCSD - PBE - 64	Classroom 402	Sink	1.2
GCSD - PBE - 66	Classroom 403	Sink	0.7
GCSD - PBE - 67	Classroom 404 Bathroom	Sink	2.1
GCSD - PBE - 68	Classroom 404	Sink	1.7
GCSD - PBE - 69	Classroom 405	Sink	0.6
GCSD - PBE - 70	Classroom 405 Bathroom	Sink	1.9
GCSD - PBE - 71	Classroom 406 Bathroom	Sink	1.9
GCSD - PBE - 72	Classroom 406	Sink	1.0
GCSD - PBE - 74	Kindergarten 407	Sink	0.6
GCSD - PBE - 82	Nurse's Office Bathroom	Sink	0.8
GCSD - PBE - 87	Back Corner of Kitchen	Sink	45.0
GCSD - PBE - 91	Special Ed. 305	Sink	1.5
GCSD - PBE - 93	Special Ed. 300	Sink	2.5
GCSD - PBE - 96	Classroom 303	Sink	0.6
GCSD - PBE - 97	Library	Sink	5.5

\*Lead content at or above the NYSDOH level of 15.1 parts per billion

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## 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 - PBE - 48	Classroom 301	Sink	29.5
GCSD - PBE - 87	Back Corner of Kitchen	Sink	45.0

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