

C.T. MALE ASSOCIATES

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

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October 27, 2016

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*
Farnsworth Middle 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 lead sample collection of water sources in the Farnsworth Middle School building located at 6072 State Farm Road, Guilderland, NY. 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 sampling performed. Two hundred ninety three (293) 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 15.1ppb 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 - FMS - 01	Corridor by Room 506	Fountain	3
GCSD - FMS - 02	Technology Room 504	Sink	2
GCSD - FMS - 03	Art Room 503	Sink (L)	21
GCSD - FMS - 04	Art Room 503	Sink (M)	4

*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 - FMS - 05	Art Room 503	Sink (R)	20
GCSD - FMS - 06	Art Room 502	Sink (L)	5
GCSD - FMS - 07	Art Room 502	Sink (M)	5
GCSD - FMS - 08	Art Room 502	Sink (R)	15
GCSD - FMS - 09	Men's Bathroom 540	Sink (R)	9
GCSD - FMS - 10	Men's Bathroom 540	Sink (L)	2
GCSD - FMS - 11	Women's Bathroom 10	1Sink (R)	1
GCSD - FMS - 12	Women's Bathroom 101	Sink (L)	<1
GCSD - FMS - 13	Corridor by Closet 586	Fountain (R)	1
GCSD - FMS - 14	Corridor by Closet 586	Fountain (L)	2
GCSD - FMS - 15	Art Room 501	Sink (L)	<1
GCSD - FMS - 16	Art Room 501	Sink (M)	1
GCSD - FMS - 17	Art Room 501	Sink (R)	2
GCSD - FMS - 18	Art Room 500	Sink (L)	2
GCSD - FMS - 19	Art Room 500	Sink (M)	2
GCSD - FMS - 20	Art Room 500	Sink (R)	2
GCSD - FMS - 21	Cafeteria	Fountain	2
GCSD - FMS - 22	Kitchen	Steam Kettle (L)	40
GCSD - FMS - 23	Kitchen	Steam Kettle (R)	105
GCSD - FMS - 24	Kitchen by Cooler	Sink (L)	<1
GCSD - FMS - 25	Kitchen by Cooler	Sink (R)	4
GCSD - FMS - 26	Kitchen across from Cooler	Sink	9
GCSD - FMS - 27	Kitchen Hand Wash	Sink	13
GCSD - FMS - 28	Kitchen by Faculty 541	Sink (L)	6
GCSD - FMS - 29	Kitchen by Faculty 541	Sink (R)	11
GCSD - FMS - 30	Women's Kitchen Bathroom	Sink	4
GCSD - FMS - 31	Main Office 531 Bathroom	Sink	4
GCSD - FMS - 32	Lobby Unisex Bathroom	Sink (L)	3
GCSD - FMS - 33	Lobby Unisex Bathroom	Sink (R)	2
GCSD - FMS - 34	Main Lobby by Service 580	Fountain (L)	<1
GCSD - FMS - 35	Main Lobby by Service 580	Fountain (R)	2
GCSD - FMS - 36	Science Room 303 Front	Sink	2
GCSD - FMS - 37	Classroom 300	Sink	3
GCSD - FMS - 38	Classroom 300	Fountain	<1
GCSD - FMS - 39	Corridor by Closet 381	Fountain	5
GCSD - FMS - 40	Boy's Bathroom 383	Sink (R)	4
GCSD - FMS - 41	Boy's Bathroom 383	Sink (M)	5

*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 - FMS - 42	Boy's Bathroom 383	Sink (L)	7
GCSD - FMS - 43	Science Room 302 Front	Sink	3
GCSD - FMS - 44	Science Room 301	Sink	2
GCSD - FMS - 45	Classroom 307	Sink	3
GCSD - FMS - 46	Classroom 306	Fountain	1
GCSD - FMS - 47	Classroom 306	Sink	2
GCSD - FMS - 48	Corridor by Storage 382	Fountain	3
GCSD - FMS - 49	Boy's Locker Room 874	Sink	3
GCSD - FMS - 50	Boy's Locker Room 874	Fountain	<1
GCSD - FMS - 51	Boy's Phys. Ed. Office 831	Sink	2
GCSD - FMS - 52	Corridor by Room 201	Bottle Filler	2
GCSD - FMS - 53	Boy's Bathroom 283	Sink (L)	4
GCSD - FMS - 54	Boy's Bathroom 283	Sink (M)	3
GCSD - FMS - 55	Boy's Bathroom 283	Sink (R)	2
GCSD - FMS - 56	Corridor by Room 209	Fountain	2
GCSD - FMS - 57	Classroom 202	Sink	1
GCSD - FMS - 58	Classroom 202	Fountain	2
GCSD - FMS - 59	Classroom 203	Sink	2
GCSD - FMS - 60	Classroom 203	Fountain	1
GCSD - FMS - 61	Prep Room 200A	Sink	3
GCSD - FMS - 62	Classroom 200	Fountain	2
GCSD - FMS - 63	Classroom 200	Sink	3
GCSD - FMS - 64	Science Room 208 Front	Sink	3
GCSD - FMS - 65	Science Room 207 Front	Sink	4
GCSD - FMS - 66	Classroom 206	Sink	2
GCSD - FMS - 67	Classroom 101	Fountain	2
GCSD - FMS - 68	Classroom 101	Sink	3
GCSD - FMS - 69	Science Room 102 Front	Sink	13
GCSD - FMS - 70	Classroom 100	Fountain	1
GCSD - FMS - 71	Classroom 100	Sink	3
GCSD - FMS - 72	Prep Room 180	Sink	314
GCSD - FMS - 73	Corridor by Closet 181	Fountain	11
GCSD - FMS - 74	Boy's Bathroom 183	Sink (L)	6
GCSD - FMS - 75	Boy's Bathroom 183	Sink (M)	4
GCSD - FMS - 76	Boy's Bathroom 183	Sink (R)	5
GCSD - FMS - 77	Girl's Bathroom 184	Sink (L)	6
GCSD - FMS - 78	Girl's Bathroom 184	Sink (M)	3
GCSD - FMS - 79	Girl's Bathroom 184	Sink (R)	4

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

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LEAD BULK SAMPLE ANALYSIS RESULTS (cont.)

Sample #	Sample Location	Source	(ppb)
GCSD - FMS - 80	Corridor by Storage 182	Fountain	2
GCSD - FMS - 81	Classroom 103	Sink	7
GCSD - FMS - 82	Classroom 108	Fountain	3
GCSD - FMS - 83	Classroom 108	Sink	2
GCSD - FMS - 84	Classroom 107	Sink	1
GCSD - FMS - 85	Girl's Phys. Ed. Office 830	Sink	9
GCSD - FMS - 86	Girl's Locker Room 870	Sink	2
GCSD - FMS - 87	Girl's Locker Room 870	Fountain	<1
GCSD - FMS - 88	Corridor by Gym 801	Fountain	47
GCSD - FMS - 89	Classroom 409	Fountain	1
GCSD - FMS - 90	Classroom 409	Sink	2
GCSD - FMS - 91	Classroom 401	Sink	2
GCSD - FMS - 92	Classroom 401	Fountain	1
GCSD - FMS - 93	Corridor by Electrical 480	Bottle Filler	<1
GCSD - FMS - 94	Corridor by Electrical 480	Fountain	<1
GCSD - FMS - 95	Girl's Bathroom 487	Sink (L)	2
GCSD - FMS - 96	Girl's Bathroom 487	Sink (M)	5
GCSD - FMS - 97	Girl's Bathroom 487	Sink (R)	2
GCSD - FMS - 98	Classroom 408	Sink	1
GCSD - FMS - 99	Classroom 408	Fountain	5
GCSD - FMS - 100	Classroom 407	Sink	2
GCSD - FMS - 101	Classroom 402	Sink	5
GCSD - FMS - 102	Classroom 402	Fountain	2
GCSD - FMS - 103	Classroom 403	Sink	3
GCSD - FMS - 104	Classroom 403	Fountain	3
GCSD - FMS - 105	Boy's Bathroom 488	Sink (R)	2
GCSD - FMS - 106	Boy's Bathroom 488	Sink (M)	2
GCSD - FMS - 107	Boy's Bathroom 488	Sink (L)	2
GCSD - FMS - 108	Prep Room 484	Sink	726
GCSD - FMS - 109	Corridor by Prep Room 484	Fountain	2
GCSD - FMS - 110	Classroom 404	Sink	3
GCSD - FMS - 111	Classroom 404	Fountain	3
GCSD - FMS - 112	House Office 430	Sink	2
GCSD - FMS - 113	Science Room 406 Front	Sink	38
GCSD - FMS - 114	Science Room 405 Front	Sink	3
GCSD - FMS - 115	Classroom 561	Sink	9

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LEAD BULK SAMPLE ANALYSIS RESULTS (cont.)

<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - FMS - 116	Home Ec. 560 Back Left	Sink (Back)	15
GCSD - FMS - 117	Home Ec. 560 Back Left	Sink (Front)	15
GCSD - FMS - 118	Home Ec. 560 Front Left	Sink (Back)	14
GCSD - FMS - 119	Home Ec. 560 Front Left	Sink (Front)	20
GCSD - FMS - 120	Home Ec. 560	Sink (R)	19
GCSD - FMS - 121	Home Ec. 559	Sink (L)	10
GCSD - FMS - 122	Home Ec. 559 Back Right	Sink (Back)	14
GCSD - FMS - 123	Home Ec. 559 Back Right	Sink (Front)	11
GCSD - FMS - 124	Home Ec. 559 Front Right	Sink (Back)	13
GCSD - FMS - 125	Home Ec. 559 Front Right	Sink (Front)	10
GCSD - FMS - 126	Corridor by Storage 985	Fountain	3
GCSD - FMS - 127	Girl's Bathroom 986A	Sink (L)	5
GCSD - FMS - 128	Girl's Bathroom 986A	Sink (M)	3
GCSD - FMS - 129	Girl's Bathroom 986A	Sink (R)	2
GCSD - FMS - 130	Corridor by Control Rm. 522	Fountain	1
GCSD - FMS - 131	Corridor by Control Rm. 522	Bottle Filler	1
GCSD - FMS - 132	Classroom 564	Sink	17
GCSD - FMS - 133	Men's Bathroom 634	Sink	4
GCSD - FMS - 134	Women's Bathroom 633	Sink	4
GCSD - FMS - 135	Administrative Office 334	Sink	<1
GCSD - FMS - 136	Corridor by Boy's Bath 341	Fountain	<1
GCSD - FMS - 137	Corridor by Boy's Bath 341	Bottle Filler	<1
GCSD - FMS - 138	Corridor by Girl's Bath 342	Fountain	3
GCSD - FMS - 139	Women's Bathroom 360	Sink	6
GCSD - FMS - 140	Men's Bathroom 359	Sink	2
GCSD - FMS - 141	Corridor by Boy's Bath 289	Fountain	3
GCSD - FMS - 142	Corridor by Room 258	Fountain	2
GCSD - FMS - 143	Faculty Room 233	Sink	4
GCSD - FMS - 144	Women's Bathroom 249	Sink	3
GCSD - FMS - 145	Men's Bathroom 250	Sink	4
GCSD - FMS - 146	Guidance Office 130	Sink	2
GCSD - FMS - 147	Faculty Room 136	Sink	24
GCSD - FMS - 148	Corridor by Room 136	Bottle Filler	3
GCSD - FMS - 149	Corridor by Room 136	Fountain	2
GCSD - FMS - 150	Corridor by Girl's Bath 163	Fountain	4
GCSD - FMS - 151	Men's Bathroom 161	Sink	3

*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 - FMS - 152	Women's Bathroom 160	Sink	2
GCSD - FMS - 153	Classroom 451	Sink	3
GCSD - FMS - 154	Classroom 451	Fountain	2
GCSD - FMS - 155	Corridor by Classroom 451	Fountain	1
GCSD - FMS - 156	Classroom 452	Sink	3
GCSD - FMS - 157	Classroom 452	Fountain	5
GCSD - FMS - 158	Classroom 453	Sink	4
GCSD - FMS - 159	Classroom 453	Fountain	2
GCSD - FMS - 160	Women's Bathroom by 487	Sink 3	
GCSD - FMS - 161	Classroom 456	Fountain	2
GCSD - FMS - 162	Classroom 456	Sink	1
GCSD - FMS - 163	Corridor by Counselor 433	Fountain	<1
GCSD - FMS - 164	Classroom 454	Sink	3
GCSD - FMS - 165	Classroom 454	Fountain	2
GCSD - FMS - 166	Classroom 455	Fountain	2
GCSD - FMS - 167	Classroom 455	Sink	2
GCSD - FMS - 168	Classroom 434	Fountain	2
GCSD - FMS - 169	Classroom 434	Sink	3
GCSD - FMS - 170	Science Room 302 Island 1	Sink (L)	63.3
GCSD - FMS - 171	Science Room 302 Island 1	Sink (R)	168
GCSD - FMS - 172	Science Room 302 Island 2	Sink (F)	27
GCSD - FMS - 173	Science Room 302 Island 2	Sink (B)	224
GCSD - FMS - 174	Science Room 302 Island 3	Sink (F)	186
GCSD - FMS - 175	Science Room 302 Island 3	Sink (B)	141
GCSD - FMS - 176	Science Room 302 Island 4	Sink (F)	183
GCSD - FMS - 177	Science Room 302 Island 4	Sink (B)	243
GCSD - FMS - 178	Science Room 302 Island 5	Sink (F)	114
GCSD - FMS - 179	Science Room 302 Island 5	Sink (B)	136
GCSD - FMS - 180	Science Room 302 Island 6	Sink (F)	47.4
GCSD - FMS - 181	Science Room 302 Island 6	Sink (B)	30.1
GCSD - FMS - 182	Science Room 303 Island 1	Sink (R)	23.9
GCSD - FMS - 183	Science Room 303 Island 1	Sink (L)	21.3
GCSD - FMS - 184	Science Room 303 Island 2	Sink (F)	17
GCSD - FMS - 185	Science Room 303 Island 2	Sink (B)	11.6
GCSD - FMS - 186	Science Room 303 Island 3	Sink (F)	19.3
GCSD - FMS - 187	Science Room 303 Island 3	Sink (B)	16

*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 - FMS - 188	Science Room 303 Island 4	Sink (F)	13.1
GCSD - FMS - 189	Science Room 303 Island 4	Sink (B)	18.3
GCSD - FMS - 190	Science Room 303 Island 5	Sink (F)	15.8
GCSD - FMS - 191	Science Room 303 Island 5	Sink (B)	12.6
GCSD - FMS - 192	Science Room 303 Island 6	Sink (F)	12
GCSD - FMS - 193	Science Room 303 Island 6	Sink (B)	18.2
GCSD - FMS - 194	Science Room 208 Island 1	Sink (L)	23.7
GCSD - FMS - 195	Science Room 208 Island 1	Sink (R)	23.8
GCSD - FMS - 196	Science Room 208 Island 2	Sink (F)	36.7
GCSD - FMS - 197	Science Room 208 Island 2	Sink (B)	26.8
GCSD - FMS - 198	Science Room 208 Island 3	Sink (F)	19.9
GCSD - FMS - 199	Science Room 208 Island 3	Sink (B)	26.5
GCSD - FMS - 200	Science Room 208 Island 4	Sink (F)	24.7
GCSD - FMS - 201	Science Room 208 Island 4	Sink (B)	19.4
GCSD - FMS - 202	Science Room 208 Island 5	Sink (F)	20.6
GCSD - FMS - 203	Science Room 208 Island 5	Sink (B)	24.8
GCSD - FMS - 204	Science Room 208 Island 6	Sink (F)	30.2
GCSD - FMS - 205	Science Room 208 Island 6	Sink (B)	33.5
GCSD - FMS - 206	Science Room 207 Island 1	Sink (R)	26.7
GCSD - FMS - 207	Science Room 207 Island 1	Sink (L)	34.8
GCSD - FMS - 208	Science Room 207 Island 2	Sink (F)	36.2
GCSD - FMS - 209	Science Room 207 Island 2	Sink (B)	39.2
GCSD - FMS - 210	Science Room 207 Island 3	Sink (F)	30.8
GCSD - FMS - 211	Science Room 207 Island 3	Sink (B)	30.3
GCSD - FMS - 212	Science Room 207 Island 4	Sink (F)	46.6
GCSD - FMS - 213	Science Room 207 Island 4	Sink (B)	31
GCSD - FMS - 214	Science Room 207 Island 5	Sink (F)	48.1
GCSD - FMS - 215	Science Room 207 Island 5	Sink (B)	41.6
GCSD - FMS - 216	Science Room 207 Island 6	Sink (F)	50.1
GCSD - FMS - 217	Science Room 207 Island 6	Sink (B)	44.3
GCSD - FMS - 218	Science Room 102 Island 1	Sink (L)	108
GCSD - FMS - 219	Science Room 102 Island 1	Sink (R)	94.7
GCSD - FMS - 220	Science Room 102 Island 2	Sink (F)	97.2
GCSD - FMS - 221	Science Room 102 Island 2	Sink (B)	78.4
GCSD - FMS - 222	Science Room 102 Island 3	Sink (F)	159
GCSD - FMS - 223	Science Room 102 Island 3	Sink (B)	120
GCSD - FMS - 224	Science Room 102 Island 4	Sink (F)	145
GCSD - FMS - 225	Science Room 102 Island 4	Sink (B)	107.7

*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 - FMS - 226	Science Room 102 Island 5	Sink (F)	136.2
GCSD - FMS - 227	Science Room 102 Island 5	Sink (B)	123.5
GCSD - FMS - 228	Science Room 102 Island 6	Sink (F)	114.3
GCSD - FMS - 229	Science Room 102 Island 6	Sink (B)	62.3
GCSD - FMS - 230	Science Room 405 Island 1	Sink (R)	69
GCSD - FMS - 231	Science Room 405 Island 1	Sink (L)	68.7
GCSD - FMS - 232	Science Room 405 Island 2	Sink (F)	44.9
GCSD - FMS - 233	Science Room 405 Island 2	Sink (B)	87.7
GCSD - FMS - 234	Science Room 405 Island 3	Sink (F)	84.8
GCSD - FMS - 235	Science Room 405 Island 3	Sink (B)	95.4
GCSD - FMS - 236	Science Room 405 Island 4	Sink (F)	63.3
GCSD - FMS - 237	Science Room 405 Island 4	Sink (B)	60.8
GCSD - FMS - 238	Science Room 405 Island 5	Sink (F)	162
GCSD - FMS - 239	Science Room 405 Island 5	Sink (B)	122
GCSD - FMS - 240	Science Room 405 Island 6	Sink (F)	186
GCSD - FMS - 241	Science Room 405 Island 6	Sink (B)	169
GCSD - FMS - 242	Bathroom 986B	Sink (L)	25.3
GCSD - FMS - 243	Bathroom 986B	Sink (M)	7.4
GCSD - FMS - 244	Bathroom 986B	Sink (R)	4.3
GCSD - FMS - 245	Bathroom 162	Sink (R)	6.7
GCSD - FMS - 246	Bathroom 162	Sink (M)	6.7
GCSD - FMS - 247	Bathroom 162	Sink (L)	15.3
GCSD - FMS - 248	Bathroom 163	Sink (M)	11
GCSD - FMS - 249	Bathroom 163	Sink (L)	8
GCSD - FMS - 251	Boy's Bathroom 681A	Sink (M)	3.5
GCSD - FMS - 252	Storage Room 689	Sink	8.7
GCSD - FMS - 253	Girl's Bathroom 384	Sink (L)	17
GCSD - FMS - 254	Girl's Bathroom 384	Sink (M)	7.6
GCSD - FMS - 256	Prep Room 380	Sink	100
GCSD - FMS - 257	Corridor by Room 201	Fountain	<1
GCSD - FMS - 258	Girl's Bathroom 284	Sink (R)	5.7
GCSD - FMS - 259	Girl's Bathroom 284	Sink (M)	5.8
GCSD - FMS - 260	Girl's Bathroom 284	Sink (L)	8.3
GCSD - FMS - 261	Science Room 104 Front	Sink	9.1
GCSD - FMS - 262	Science Room 406 Island 1	Sink (1L)	34
GCSD - FMS - 264	Science Room 406 Island 2	Sink (2F)	13

*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 - FMS - 265	Science Room 406 Island 2	Sink (2B)	16
GCSD - FMS - 266	Science Room 406 Island 3	Sink (3F)	13
GCSD - FMS - 267	Science Room 406 Island 3	Sink (3B)	34
GCSD - FMS - 268	Science Room 406 Island 4	Sink (4F)	23
GCSD - FMS - 270	Science Room 406 Island 5	Sink (5F)	9.3
GCSD - FMS - 271	Science Room 406 Island 5	Sink (5B)	14
GCSD - FMS - 272	Science Room 406 Island 6	Sink (6F)	15
GCSD - FMS - 273	Science Room 406 Island 6	Sink (6B)	21
GCSD - FMS - 274	Counselor/BCW Room 558	Sink	6.8
GCSD - FMS - 275	Library Faculty Room 631	Sink	27
GCSD - FMS - 276	Boy's Bathroom 341	Sink (L)	19
GCSD - FMS - 277	Boy's Bathroom 341	Sink (M)	7
GCSD - FMS - 278	Boy's Bathroom 341	Sink (R)	7.9
GCSD - FMS - 279	Girl's Bathroom 342	Sink (L)	7.3
GCSD - FMS - 280	Girl's Bathroom 342	Sink (M)	11
GCSD - FMS - 281	Girl's Bathroom 342	Sink (R)	10
GCSD - FMS - 282	Classroom 459	Sink	3
GCSD - FMS - 283	Classroom 459	Fountain	1.6
GCSD - FMS - 284	Classroom 458	Fountain	1.2
GCSD - FMS - 285	Classroom 458	Sink	3.2
GCSD - FMS - 286	Classroom 457	Sink	2
GCSD - FMS - 287	Classroom 457	Fountain	2
GCSD - FMS - 288	Men's Bathroom 492	Sink	3
GCSD - FMS - 289	Girl's Bathroom 489	Sink (M)	6
GCSD - FMS - 290	Girl's Bathroom 489	Sink (R)	3
GCSD - FMS - 291	Boy's Bathroom 490	Sink (R)	2
GCSD - FMS - 292	Boy's Bathroom 490	Sink (M)	2
GCSD - FMS - 293	Boy's Bathroom 490	Sink (L)	3

*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 - FMS - 03	Art Room 503	Sink (L)	21
GCSD - FMS - 05	Art Room 503	Sink (R)	20
GCSD - FMS - 08	Art Room 502	Sink (R)	15
GCSD - FMS - 22	Kitchen	Steam Kettle (L)	40

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<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - FMS - 23	Kitchen	Steam Kettle (R)	105
GCSD - FMS - 72	Prep Room 180	Sink	314
GCSD - FMS - 88	Corridor by Gym 801	Fountain	47
GCSD - FMS - 108	Prep Room 484	Sink	726
GCSD - FMS - 113	Science Room 406 Front	Sink	38
GCSD - FMS - 116	Home Ec. 560 Back Left	Sink (Back)	15
GCSD - FMS - 117	Home Ec. 560 Back Left	Sink (Front)	15
GCSD - FMS - 119	Home Ec. 560 Front Left	Sink (Front)	20
GCSD - FMS - 120	Home Ec. 560	Sink (R)	19
GCSD - FMS - 132	Classroom 564	Sink	17
GCSD - FMS - 147	Faculty Room 136	Sink	24
GCSD - FMS - 170	Science Room 302 Island 1	Sink (L)	63.3
GCSD - FMS - 171	Science Room 302 Island 1	Sink (R)	168
GCSD - FMS - 172	Science Room 302 Island 2	Sink (F)	27
GCSD - FMS - 173	Science Room 302 Island 2	Sink (B)	224
GCSD - FMS - 174	Science Room 302 Island 3	Sink (F)	186
GCSD - FMS - 175	Science Room 302 Island 3	Sink (B)	141
GCSD - FMS - 176	Science Room 302 Island 4	Sink (F)	183
GCSD - FMS - 177	Science Room 302 Island 4	Sink (B)	243
GCSD - FMS - 178	Science Room 302 Island 5	Sink (F)	114
GCSD - FMS - 179	Science Room 302 Island 5	Sink (B)	136
GCSD - FMS - 180	Science Room 302 Island 6	Sink (F)	47.4
GCSD - FMS - 181	Science Room 302 Island 6	Sink (B)	30.1
GCSD - FMS - 182	Science Room 303 Island 1	Sink (R)	23.9
GCSD - FMS - 183	Science Room 303 Island 1	Sink (L)	21.3
GCSD - FMS - 184	Science Room 303 Island 2	Sink (F)	17
GCSD - FMS - 186	Science Room 303 Island 3	Sink (F)	19.3
GCSD - FMS - 187	Science Room 303 Island 3	Sink (B)	16.6
GCSD - FMS - 189	Science Room 303 Island 4	Sink (B)	18.3
GCSD - FMS - 190	Science Room 303 Island 5	Sink (F)	15.8
GCSD - FMS - 193	Science Room 303 Island 6	Sink (B)	18.2
GCSD - FMS - 194	Science Room 208 Island 1	Sink (L)	23.7
GCSD - FMS - 195	Science Room 208 Island 1	Sink (R)	23.8
GCSD - FMS - 196	Science Room 208 Island 2	Sink (F)	36.7
GCSD - FMS - 197	Science Room 208 Island 2	Sink (B)	26.8
GCSD - FMS - 198	Science Room 208 Island 3	Sink (F)	19.9
GCSD - FMS - 199	Science Room 208 Island 3	Sink (B)	26.5
GCSD - FMS - 200	Science Room 208 Island 4	Sink (F)	24.7
GCSD - FMS - 201	Science Room 208 Island 4	Sink (B)	19.4
GCSD - FMS - 202	Science Room 208 Island 5	Sink (F)	20.6
GCSD - FMS - 203	Science Room 208 Island 5	Sink (B)	24.8
GCSD - FMS - 204	Science Room 208 Island 6	Sink (F)	30.2

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<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - FMS - 205	Science Room 208 Island 6	Sink (B)	33.5
GCSD - FMS - 206	Science Room 207 Island 1	Sink (R)	26.7
GCSD - FMS - 207	Science Room 207 Island 1	Sink (L)	34.8
GCSD - FMS - 208	Science Room 207 Island 2	Sink (F)	36.2
GCSD - FMS - 209	Science Room 207 Island 2	Sink (B)	39.2
GCSD - FMS - 210	Science Room 207 Island 3	Sink (F)	30.8
GCSD - FMS - 211	Science Room 207 Island 3	Sink (B)	30.3
GCSD - FMS - 212	Science Room 207 Island 4	Sink (F)	46.6
GCSD - FMS - 213	Science Room 207 Island 4	Sink (B)	31
GCSD - FMS - 214	Science Room 207 Island 5	Sink (F)	48.1
GCSD - FMS - 215	Science Room 207 Island 5	Sink (B)	41.6
GCSD - FMS - 216	Science Room 207 Island 6	Sink (F)	50.1
GCSD - FMS - 217	Science Room 207 Island 6	Sink (B)	44.3
GCSD - FMS - 218	Science Room 102 Island 1	Sink (L)	108
GCSD - FMS - 219	Science Room 102 Island 1	Sink (R)	94.7
GCSD - FMS - 220	Science Room 102 Island 2	Sink (F)	97.2
GCSD - FMS - 221	Science Room 102 Island 2	Sink (B)	78.4
GCSD - FMS - 222	Science Room 102 Island 3	Sink (F)	159
GCSD - FMS - 223	Science Room 102 Island 3	Sink (B)	120
GCSD - FMS - 224	Science Room 102 Island 4	Sink (F)	145
GCSD - FMS - 225	Science Room 102 Island 4	Sink (B)	107.7
GCSD - FMS - 226	Science Room 102 Island 5	Sink (F)	136.2
GCSD - FMS - 227	Science Room 102 Island 5	Sink (B)	123.5
GCSD - FMS - 228	Science Room 102 Island 6	Sink (F)	114.3
GCSD - FMS - 229	Science Room 102 Island 6	Sink (B)	62.3
GCSD - FMS - 230	Science Room 405 Island 1	Sink (R)	69
GCSD - FMS - 231	Science Room 405 Island 1	Sink (L)	68.7
GCSD - FMS - 232	Science Room 405 Island 2	Sink (F)	44.9
GCSD - FMS - 233	Science Room 405 Island 2	Sink (B)	87.7
GCSD - FMS - 234	Science Room 405 Island 3	Sink (F)	84.8
GCSD - FMS - 235	Science Room 405 Island 3	Sink (B)	95.4
GCSD - FMS - 236	Science Room 405 Island 4	Sink (F)	63.3
GCSD - FMS - 237	Science Room 405 Island 4	Sink (B)	60.8
GCSD - FMS - 238	Science Room 405 Island 5	Sink (F)	162
GCSD - FMS - 239	Science Room 405 Island 5	Sink (B)	122
GCSD - FMS - 240	Science Room 405 Island 6	Sink (F)	186
GCSD - FMS - 241	Science Room 405 Island 6	Sink (B)	169
GCSD - FMS - 242	Bathroom 986B	Sink (L)	25.3
GCSD - FMS - 247	Bathroom 162	Sink (L)	15.3
GCSD - FMS - 253	Girl's Bathroom 384	Sink (L)	17
GCSD - FMS - 256	Prep Room 380	Sink	100
GCSD - FMS - 262	Science Room 406 Island 1	Sink (L)	34

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<u>Sample #</u>	<u>Sample Location</u>	<u>Source</u>	<u>(ppb)</u>
GCSD - FMS - 265	Science Room 406 Island 2	Sink (B)	16
GCSD - FMS - 267	Science Room 406 Island 3	Sink (B)	34
GCSD - FMS - 268	Science Room 406 Island 4	Sink (F)	23
GCSD - FMS - 272	Science Room 406 Island 6	Sink (F)	15
GCSD - FMS - 273	Science Room 406 Island 6	Sink (B)	21
GCSD - FMS - 275	Library Faculty Room 631	Sink	27
GCSD - FMS - 276	Boy's Bathroom 341	Sink (L)	19

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

C.T. MALE ASSOCIATES

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

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com



November 28, 2016

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 -Supplemental
Farnsworth Middle 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 lead sample collection of water sources in the Farnsworth Middle School building located at 6072 State Farm Road, Guilderland, NY. 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 sampling performed. Eighteen (18) additional samples were collected from this building from sources that were either used, not working or inaccessible during the initial sampling event(s). 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 15.1ppb 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 - FMS - 250	Tech Room 508	Sink	5.4
GCSD - FMS - 255	Bathroom 384	Sink (R)	12.3
GCSD - FMS - 263	Science Room 406 Island 1	Sink (1R)	31

***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 - FMS - 269	Science Room 406 - Island 4	Sink (4B)	16.3
GCSD - FMS - 294	Bathroom 342	Sink (M)	4
GCSD - FMS - 295	Bathroom 342	Sink (R)	3.8
GCSD - FMS - 296	Bathroom 289	Sink (L)	3.3
GCSD - FMS - 297	Bathroom 289	Sink (M)	<1
GCSD - FMS - 298	Bathroom 289	Sink (R)	<1
GCSD - FMS - 299	Bathroom 290	Sink (M)	4.8
GCSD - FMS - 300	Girl's Bathroom 163	Sink (R)	2
GCSD - FMS - 301	Corridor Outside Gym C23	Fountain	20.7
GCSD - FMS - 302	Bathroom G81A	Sink (L)	6.8
GCSD - FMS - 303	Bathroom G81A	Sink (R)	6.1
GCSD - FMS - 304	Nurse's Office	Sink	3.1
GCSD - FMS - 305	Nurse's Office - Bathroom	Sink	6.8
GCSD - FMS - 306	Nurse's Office - Exam Room	Sink	32
GCSD - FMS - 307	Girls Bathroom 489	Sink (L)	3

*Lead content at or above the NYSDOH level of 15.1 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 - FMS - 263	Science Room 406 Island 1	Sink (1R)	31
GCSD - FMS - 269	Science Room 406 - Island 4	Sink (4B)	16.3
GCSD - FMS - 301	Corridor Outside Gym C23	Fountain	20.7
GCSD - FMS - 306	Nurse's Office - Exam Room	Sink	32

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.

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Sincerely,
C.T. MALE ASSOCIATES

A handwritten signature in black ink that reads "Michael F. Sawyer". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Michael F. Sawyer
Managing Industrial Hygienist