



November 29, 2016

Cincinnati Public Schools
Cynthia Eghbalnia
2651 Burnet Avenue
Cincinnati, OH 45219

Hartwell School

Dear Cynthia:

Attached please find the results of the lead analyses performed for Hartwell School by the Greater Cincinnati Water Works (GCWW). The following comments speak to the process, samples analyzed and additional steps needed to help ensure the safety of all the students within the school.

School Sampling Process and Results

GCWW and Cincinnati Public Schools (CPS) staff worked together to finalize a sampling plan for the school. The *USEPA 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance Document (3Ts Guidelines)* is the process and guidelines used for assisting schools with testing for lead.

In November, one hundred, fourteen (114) samples were collected from drinking fountains and sinks throughout the school. Multiple sinks within the school were not initially considered for testing, however, key nearby indicators (coffee makers, drinking cups, plates, utensils, etc.) prompted these locations to be tested. Including these sampling locations speaks to the proactive approach CPS continues to have towards understanding the water quality within the schools. One additional location was not sampled [drinking fountain]. The results show the following:

- 104 samples (91.23%), below the detection level (<1)
- 10 samples (8.77%), between 1ppb and 5ppb

Approximately nine percent (8.77%) of the samples analyzed had some level of lead detection; 100% of the sample results were below the federal action level.

Fifteen parts per billion (ppb) is the federal Lead and Copper Rule action level; desired results are below 15. The federal action level of 15ppb pertains to water utilities and GCWW's review and comments are based on this action level. However, the USEPA 3Ts Guidelines document outlines practices for schools to put in place if samples are greater than 20 ppb.

While we strive to have results less than 15, we recognize that lead is a pervasive environmental contaminant, and no safe blood lead threshold has been identified in children or adults. Therefore, we provide recommendations to further reduce any lead levels discovered at drinking water and cooking outlets.

Next steps

GCWW has reviewed the results from your samples and provides some next-steps comments:

1. Although lower than the 15 ppb action level, for samples with lead detections at drinking fountains and cooking outlets (kitchen, stockpot filler locations), consider flushing the lines before using the water. Refer to the USEPA 3Ts Guidelines for more information.



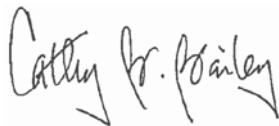
2. For sinks with lead detections, as a precautionary measure, consider signage above sinks that indicates hand washing only or communications throughout the school that expresses this. Refer to the USEPA 3Ts Guidelines for more information to reduce the risk of lead.
3. Although a number of samples had minimum lead detections at this time, consider completing a plumbing profile to review the fixtures in the school as some fixtures may be contributing to the lead detections in samples. If the fixtures are the source of the lead, plan to replace them. The USEPA 3Ts Guidelines outlines a great approach to creating and implementing a remediation plan. A copy of the Guidelines can be found on our website <http://www.cincinnati-oh.gov/water/assets/File/3T%20Guidance%20Manual%20for%20Schools.pdf>.

State funds are available through the new Lead Plumbing Fixture Replacement Assistance Grant Program established to provide reimbursement to eligible schools for the assessment and replacement of certain plumbing fixtures. The program is open to traditional public schools, community schools, and chartered non-public schools. Program information can be found on the Ohio Facilities Construction Commission (OFCC) Services and Programs website <http://ofcc.ohio.gov/ServicesPrograms/LeadFixtureReplacementGrants.aspx>.

4. If it hasn't occurred already, a robust communications plan is suggested. Communications plan steps are outlined in the 3Ts Guidelines. This plan will inform the school community of the sampling work the school has done to date and the steps the school will take to correct any issues discovered. GCWW employees can assist with this plan and are available to attend any school meetings to help explain our lead program, the sample results and our partnership with CPS. Sampling results will be posted on the GCWW lead.mygcww.org website with other school sampling results.

Greater Cincinnati Water Works takes the presence of lead service lines and the removal of those service lines in our system very seriously. In addition, minimizing the exposure of lead within our preschools, schools, and daycares is one of our highest priorities under our Enhanced Lead Program. We look forward to our continued partnership with Cincinnati Public Schools. Our resources are available to assist in many ways. Please contact Jim Nelson at 591-6869 to discuss how we can assist with next steps within your school.

Sincerely,



Cathy B. Bailey
Director/Greater Cincinnati Water Works

Cc: Dr. Marilyn Crumpton, Cincinnati Health Department
Dr. Camille Jones, Cincinnati Health Department
Chuck DeJonckheere, Hamilton County Public Health
Sheila Hill-Christian, City of Cincinnati
Verna Arnette, Greater Cincinnati Water Works
Jeff Swertfeger, Greater Cincinnati Water Works

Cincinnati Public Schools - Hartwell School- Lead Testing Results

SAMPLE #	SAMPLE DATE	SAMPLE TIME	SAMPLE NAME	PARAMETER CODE	AMOUNT	GCWW COMMENTS/REVIEW/RECOMMENDATIONS REGARDING RESULTS
HAR1	11/8/2016	5:03	HAR-FL1-1102MAINOFFRR-SINK-HAR1	Lead, ppb	<1	Less than detection level
HAR2	11/8/2016	5:08	HAR-FL1-BOYSRRNEAR1318-LSINK-HAR2	Lead, ppb	<1	Less than detection level
HAR3	11/8/2016	5:08	HAR-FL1-BOYSRRNEAR1318-RSINK-HAR3	Lead, ppb	<1	Less than detection level
HAR4	11/8/2016	5:08	HAR-FL1-GIRLSRRNEAR1318-LSINK-HAR4	Lead, ppb	<1	Less than detection level
HAR5	11/8/2016	5:08	HAR-FL1-GIRLSRRNEAR1318-RINK-HAR5	Lead, ppb	<1	Less than detection level
HAR6	11/8/2016	5:05	HAR-FL1-HALLWAYNEAR1318-DF-HAR6	Lead, ppb	<1	Less than detection level
HAR7	11/8/2016	5:09	HAR-FL1-1111-SINK-HAR7	Lead, ppb	<1	Less than detection level
HAR8	11/8/2016	5:09	HAR-FL1-1111-DF-HAR8	Lead, ppb	<1	Less than detection level
HAR9	11/8/2016	5:09	HAR-FL1-1111RR-SINK-HAR9	Lead, ppb	<1	Less than detection level
HAR10	11/8/2016	5:12	HAR-FL1-1113-SINK-HAR10	Lead, ppb	<1	Less than detection level
HAR11	11/8/2016	5:12	HAR-FL1-1113-DF-HAR11	Lead, ppb	1.14	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR12	11/8/2016	5:12	HAR-FL1-1113RR-SINK-HAR12	Lead, ppb	<1	Less than detection level
HAR13	11/22/2016	5:13	HAR-FL1-1115-SINK-HAR13	Lead, ppb	<1	Less than detection level
HAR14	11/22/2016	5:13	HAR-FL1-1115-DF-HAR14	Lead, ppb	<1	Less than detection level
HAR15	11/22/2016	5:13	HAR-FL1-1115RR-SINK-HAR15	Lead, ppb	<1	Less than detection level
HAR16	11/22/2016	5:17	HAR-FL1-1117STAFFWORK-SINK-HAR16	Lead, ppb	<1	Less than detection level
HAR17	11/22/2016	5:17	HAR-FL1-1117STAFFWORK-DF-HAR17	Lead, ppb	<1	Less than detection level
HAR18	11/22/2016	5:17	HAR-FL1-1117STAFFWORKRR-SINK-HAR18	Lead, ppb	<1	Less than detection level
HAR19	11/22/2016	5:18	HAR-FL1-1119-SINK-HAR19	Lead, ppb	<1	Less than detection level
HAR20	11/22/2016	5:18	HAR-FL1-1119-DF-HAR20	Lead, ppb	<1	Less than detection level
HAR21	11/8/2016	5:18	HAR-FL1-1119RR-SINK-HAR21	Lead, ppb	<1	Less than detection level
HAR22	11/8/2016	5:19	HAR-FL1-1121-SINK-HAR22	Lead, ppb	<1	Less than detection level
HAR23	11/8/2016	5:19	HAR-FL1-1121-DF-HAR23	Lead, ppb	<1	Less than detection level
HAR24	11/8/2016	5:19	HAR-FL1-1121RR-SINK-HAR24	Lead, ppb	<1	Less than detection level
HAR25	11/8/2016	5:27	HAR-KITCHEN-STOCKPOT-FILLER-HAR25	Lead, ppb	<1	Less than detection level
HAR26	11/8/2016	5:27	HAR-KITCHEN-1314RR-SINK-HAR26	Lead, ppb	<1	Less than detection level
HAR27	11/8/2016	5:28	HAR-KITCHEN-3TUBWASH-SINK-HAR27	Lead, ppb	<1	Less than detection level
HAR28	11/8/2016	5:29	HAR-KITCHEN-2TUBPRODUCE-SINK-HAR28	Lead, ppb	<1	Less than detection level
HAR29	11/8/2016	5:29	HAR-KITCHEN-NEARWASHSINK-HANDSINK-HAR29	Lead, ppb	<1	Less than detection level

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HAR30	11/8/2016	5:30	HAR-KITCHEN-NEARSTOCKPOT-HANDSINK-HAR30	Lead, ppb	<1	Less than detection level
HAR31	11/8/2016	5:58	HAR-KITCHEN-WASHROOM-HANDSINK-HAR31	Lead, ppb	<1	Less than detection level
HAR32	N/A	N/A	HAR-FL1-HALLWAYNEAR1300-LDF	Lead, ppb	N/A	Not Sampled
HAR33	11/8/2016	5:30	HAR-FL1-HALLWAYNEAR1300-RDF-HAR33	Lead, ppb	<1	Less than detection level
HAR34	11/8/2016	5:34	HAR-GYM-1307COACHOFFRR-SINK-HAR34	Lead, ppb	<1	Less than detection level
HAR35	11/8/2016	5:34	HAR-GYM-GIRLSLOKER-LSINK-HAR35	Lead, ppb	<1	Less than detection level
HAR36	11/8/2016	5:34	HAR-GYM-GIRLSLOKER-RSINK-HAR36	Lead, ppb	<1	Less than detection level
HAR37	11/8/2016	5:36	HAR-GYM-BOYSLOKER-LSINK-HAR37	Lead, ppb	1.2	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR38	11/8/2016	5:36	HAR-GYM-BOYSLOKER-RSINK-HAR38	Lead, ppb	<1	Less than detection level
HAR39	11/8/2016	5:27	HAR-GYM-1302PESTORE-IM-HAR39	Lead, ppb	<1	Less than detection level
HAR40	11/8/2016	5:40	HAR-FL1-1223-SINK-HAR40	Lead, ppb	<1	Less than detection level
HAR41	11/8/2016	5:40	HAR-FL1-1223-DF-HAR41	Lead, ppb	<1	Less than detection level
HAR42	11/8/2016	5:40	HAR-FL1-1219ART-LSINK-HAR42	Lead, ppb	<1	Less than detection level
HAR43	11/8/2016	5:40	HAR-FL1-1219ART-RSINK-HAR43	Lead, ppb	<1	Less than detection level
HAR44	11/8/2016	5:42	HAR-FL1-LIBRARYRR-SINK-HAR44	Lead, ppb	<1	Less than detection level
HAR45	11/8/2016	5:42	HAR-FL1-1218LIBRARY-SINK-HAR45	Lead, ppb	<1	Less than detection level
HAR46	11/8/2016	5:42	HAR-FL1-1218LIBRARY-DF-HAR46	Lead, ppb	2.11	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR47	11/8/2016	5:45	HAR-FL1-1211-SINK-HAR47	Lead, ppb	<1	Less than detection level
HAR48	11/8/2016	5:45	HAR-FL1-1211-DF-HAR48	Lead, ppb	<1	Less than detection level
HAR49	11/8/2016	5:46	HAR-FL1-1210-SINK-HAR49	Lead, ppb	<1	Less than detection level
HAR50	11/8/2016	5:46	HAR-FL1-1210-DF-HAR50	Lead, ppb	<1	Less than detection level
HAR51	11/8/2016	5:47	HAR-FL1-1209-SINK-HAR51	Lead, ppb	<1	Less than detection level
HAR52	11/8/2016	5:47	HAR-FL1-1209-DF-HAR52	Lead, ppb	<1	Less than detection level
HAR53	11/8/2016	5:48	HAR-FL1-1207-SINK-HAR53	Lead, ppb	<1	Less than detection level
HAR54	11/8/2016	5:48	HAR-FL1-1207-DF-HAR54	Lead, ppb	<1	Less than detection level
HAR55	11/8/2016	5:48	HAR-FL1-1207RR-SINK-HAR55	Lead, ppb	<1	Less than detection level

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HAR56	11/8/2016	5:49	HAR-FL1-GIRLSRRNEAR1223-LSINK-HAR56	Lead, ppb	<1	Less than detection level
HAR57	11/8/2016	5:49	HAR-FL1-GIRLSRRNEAR1223-RSINK-HAR57	Lead, ppb	<1	Less than detection level
HAR58	11/8/2016	5:49	HAR-FL1-HALLWAYNEAR1223-LDF-HAR58	Lead, ppb	<1	Less than detection level
HAR59	11/8/2016	5:49	HAR-FL1-HALLWAYNEAR1223-RDF-HAR59	Lead, ppb	<1	Less than detection level
HAR60	11/8/2016	5:49	HAR-FL1-BOYSRRNEAR1223-LSINK-HAR60	Lead, ppb	<1	Less than detection level
HAR61	11/8/2016	5:49	HAR-FL1-BOYSRRNEAR1223-RSINK-HAR61	Lead, ppb	<1	Less than detection level
HAR62	11/8/2016	5:52	HAR-FL1-1202HEALTHCLINIC-SINK-HAR62	Lead, ppb	<1	Less than detection level
HAR63	11/8/2016	5:52	HAR-FL1-1202HEALTHCLINIC-DF-HAR63	Lead, ppb	<1	Less than detection level
HAR64	11/8/2016	5:52	HAR-FL1-1202HEALTHCLINICRR-SINK-HAR64	Lead, ppb	<1	Less than detection level
HAR65	11/8/2016	5:59	HAR-FL1-1200COMMUNITYRM-SINK-HAR65	Lead, ppb	<1	Less than detection level
HAR66	11/8/2016	5:59	HAR-FL1-1200COMMUNITYRM-DF-HAR66	Lead, ppb	1.54	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR67	11/8/2016	6:00	HAR-FL1-1201COMMUNITYRMOFF-SINK-HAR67	Lead, ppb	<1	Less than detection level
HAR68	11/8/2016	6:00	HAR-FL1-1201COMMUNITYRMOFF-DF-HAR68	Lead, ppb	1.74	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR69	11/8/2016	6:01	HAR-FL2-2113-SINK-HAR69	Lead, ppb	<1	Less than detection level
HAR70	11/8/2016	6:01	HAR-FL2-2113-DF-HAR70	Lead, ppb	<1	Less than detection level
HAR71	11/8/2016	6:01	HAR-FL2-2112-SINK-HAR71	Lead, ppb	<1	Less than detection level
HAR72	11/8/2016	6:01	HAR-FL2-2112-DF-HAR72	Lead, ppb	<1	Less than detection level
HAR73	11/8/2016	6:02	HAR-FL2-2111-SINK-HAR73	Lead, ppb	<1	Less than detection level
HAR74	11/8/2016	6:02	HAR-FL2-2111-DF-HAR74	Lead, ppb	<1	Less than detection level
HAR75	11/8/2016	6:03	HAR-FL2-2110-SINK-HAR75	Lead, ppb	<1	Less than detection level
HAR76	11/8/2016	6:03	HAR-FL2-2110-DF-HAR76	Lead, ppb	<1	Less than detection level
HAR77	11/8/2016	6:04	HAR-FL2-2109-SINK-HAR77	Lead, ppb	<1	Less than detection level
HAR78	11/8/2016	6:04	HAR-FL2-2109-DF-HAR78	Lead, ppb	<1	Less than detection level
HAR79	11/8/2016	6:05	HAR-FL2-2108WORKRM-SINK-HAR79	Lead, ppb	<1	Less than detection level

Cincinnati Public Schools - Hartwell School- Lead Testing Results

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HAR80	11/8/2016	6:05	HAR-FL2-2108WORKRM-DF-HAR80	Lead, ppb	1.02	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR81	11/8/2016	6:06	HAR-FL2-BOYSRRNEAR2109-LSINK-HAR81	Lead, ppb	<1	Less than detection level
HAR82	11/8/2016	6:06	HAR-FL2-BOYSRRNEAR2109-RSINK-HAR82	Lead, ppb	<1	Less than detection level
HAR83	11/8/2016	6:06	HAR-FL2-GIRLSSRRNEAR2109-LSINK-HAR83	Lead, ppb	<1	Less than detection level
HAR84	11/8/2016	6:06	HAR-FL2-GIRLSSRRNEAR2109-RSINK-HAR84	Lead, ppb	<1	Less than detection level
HAR85	11/8/2016	6:08	HAR-FL2-HALLWAYNEAR2109-LDF-HAR85	Lead, ppb	<1	Less than detection level
HAR86	11/8/2016	6:08	HAR-FL2-HALLWAYNEAR2109-RDF-HAR86	Lead, ppb	<1	Less than detection level
HAR87	11/8/2016	6:09	HAR-FL2-STAFFRRNEAR2100-SINK-HAR87	Lead, ppb	<1	Less than detection level
HAR88	11/8/2016	6:10	HAR-FL2-2104-SINK-HAR88	Lead, ppb	<1	Less than detection level
HAR89	11/8/2016	6:10	HAR-FL2-2104-DF-HAR89	Lead, ppb	<1	Less than detection level
HAR90	11/8/2016	6:12	HAR-FL2-2100-SINK-HAR90	Lead, ppb	<1	Less than detection level
HAR91	11/8/2016	6:12	HAR-FL2-2100-DF-HAR91	Lead, ppb	<1	Less than detection level
HAR92	11/8/2016	6:12	HAR-FL2-2100RR-SINK-HAR92	Lead, ppb	<1	Less than detection level
HAR93	11/10/2016	6:00	HAR-FL2-2220SCIENCEFRONTDESK-SINK-HAR93	Lead, ppb	<1	Less than detection level
HAR94	11/10/2016	6:03	HAR-FL2-2220SCIENCERSIDE-LSINK-HAR94	Lead, ppb	4.7	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR95	11/10/2016	6:04	HAR-FL2-2220SCIENCERSIDE-MSINK-HAR95	Lead, ppb	2.78	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR96	11/10/2016	6:04	HAR-FL2-2220SCIENCERSIDE-RSINK-HAR96	Lead, ppb	2.64	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.

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HAR97	11/10/2016	6:00	HAR-FL2-2220SCIENCEBACK-LSINK-HAR97	Lead, ppb	2.05	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
HAR98	11/10/2016	6:02	HAR-FL2-2220SCIENCEBACK-RSINK-HAR98	Lead, ppb	<1	Less than detection level
HAR99	11/8/2016	6:17	HAR-FL2-BOYSRRNEAR2209-LSINK-HAR99	Lead, ppb	<1	Less than detection level
HAR100	11/8/2016	6:17	HAR-FL2-BOYSRRNEAR2209-RSINK-HAR100	Lead, ppb	<1	Less than detection level
HAR101	11/8/2016	6:18	HAR-FL2-HALLWAYNEAR2209-LDF-HAR101	Lead, ppb	<1	Less than detection level
HAR102	11/8/2016	6:18	HAR-FL2-HALLWAYNEAR2209-RDF-HAR102	Lead, ppb	<1	Less than detection level
HAR103	11/8/2016	6:18	HAR-FL2-GIRLSRRNEAR2209-LSINK-HAR103	Lead, ppb	<1	Less than detection level
HAR104	11/8/2016	6:18	HAR-FL2-GIRLSRRNEAR2209-RSINK-HAR104	Lead, ppb	<1	Less than detection level
HAR105	11/8/2016	6:19	HAR-FL2-STAFFRRNEAR2213-SINK-HAR105	Lead, ppb	<1	Less than detection level
HAR106	11/8/2016	6:20	HAR-FL2-2214WORKRM-SINK-HAR106	Lead, ppb	<1	Less than detection level
HAR107	11/8/2016	6:20	HAR-FL2-2214WORKRM-DF-HAR107	Lead, ppb	<1	Less than detection level
HAR108	11/8/2016	6:21	HAR-FL2-2216-SINK-HAR108	Lead, ppb	<1	Less than detection level
HAR109	11/8/2016	6:21	HAR-FL2-2216-DF-HAR109	Lead, ppb	<1	Less than detection level
HAR110	11/8/2016	6:21	HAR-FL2-2217-SINK-HAR110	Lead, ppb	<1	Less than detection level
HAR111	11/8/2016	6:21	HAR-FL2-2217-DF-HAR111	Lead, ppb	<1	Less than detection level
HAR112	11/8/2016	6:23	HAR-FL2-2218-SINK-HAR112	Lead, ppb	<1	Less than detection level
HAR113	11/8/2016	6:23	HAR-FL2-2218-DF-HAR113	Lead, ppb	<1	Less than detection level
HAR114	11/8/2016	6:24	HAR-FL2-2219-SINK-HAR114	Lead, ppb	<1	Less than detection level
HAR115	11/8/2016	6:24	HAR-FL2-2219-DF-HAR115	Lead, ppb	<1	Less than detection level