Westchester Environmental, LLC

LEAD IN DRINKING WATER REPORT
HAMBURG, NJ
SCHOOL DISTRICT

PERFORMED FOR:

HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA 19380

MARCH 2016

Westchester Environmental, LLC

March 17, 2017

Mr. William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg, NJ 07419

Re: LEAD IN DRINKING WATER REPORT

Dear Mr. Sabo:

Please find enclosed the report for the Lead in Drinking Water sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

Paul F. McCaa
Senior Environmental Specialist

307 North Walnut St, West Chester, PA 19380 • (610) 431-7545 • Fax: (610) 431-7543
www.WestchesterEnvironmental.com

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1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Mr. William Sabo of the school district, to conduct Drinking Water Sampling for Lead for the Hamburg, NJ School District Facilities, 30 Linwood Avenue, Hamburg, NJ 07419

The water sampling was performed on February 25, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples at predetermined locations in the facility and have them analyzed for lead levels.

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

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2.0 SUMMARY OF FINDINGS

First draw & flush water samples were collected and submitted for lead analysis. Table 1 shows the concentration of lead in ppb (parts per billion or microgram per liter) at each sampled location.

Table 1 Hamburg Elementary

Room	Sample Number		Location	Result	Action Level	Over Limit
				ppb	ppb	Yes/No
	001	HHE---Field Blank	Field Blank	<1.00	15.5	No
	002	HHE-LL-SPOE-RR 403	RR 403	3.35	15.5	No
412	003	HHE-LL-DW-Meeting Rm	Meeting Rm	30.3	15.5	Yes
412	004	HHE-LL-S-Meeting Rm	Meeting Rm	34.6	15.5	Yes
422	005	HHE-ML-DW-Admin Office	Admin Office	42.3	15.5	Yes
422	006	HHE-ML-S-Admin Office	Admin Office	36.3	15.5	Yes
	007	HHE-LL-DW-Music Rm	Music Rm	5.40	15.5	No
27	008	HHE-LL-S-Music Rm	Music Rm	16.4	15.5	Yes
	009	HHE-ML-DW-Rm 15	Rm 15	2.50	15.5	No
26	010	HHE-ML-S-Rm 15	Rm 15	17.2	15.5	Yes
	011	HHE-ML-DW-Rm 14	Rm 14	4.05	15.5	No
	012	HHE-ML-S-Rm 14	Rm 14	15.2	15.5	No
	013	HHE-ML-DW-Rm 13	Rm 13	3.11	15.5	No
24	014	HHE-ML-S-Rm 13	Rm 13	39.8	15.5	Yes
24	015	HHE-ML-DW-Hall O/S Rm 13	Hall O/S Rm 13	19.8	15.5	Yes
	016	HHE-ML-DW-Rm 10	Rm 10	10.3	15.5	No
	017	HHE-ML-S-Rm 10	Rm 10	10.8	15.5	No
	018	HHE-ML-DW-Rm10	Hall O/S Rm 10	4.37	15.5	No
	019	HHE-ML-S-Rm 9	Rm 9	6.01	15.5	No

	020	HHE-ML-S-Rm 9	Rm 9	14.0	15.5	No
	021	HHE-ML-S-Rm 11	Rm 11	7.97	15.5	No
	022	HHE-ML-S-Rm 11	Rm 11	5.29	15.5	No
	023	THE-ML-DW-Rm 12	Rm 12	8.15	15.5	No
	024	HHE-ML-S-Rm 12	Rm 12	6.38	15.5	No
	025	HHE-ML-DW-Hall O/S Rm 12	Hall O/S Rm 12	5.18	15.5	No
	026	HHE-ML-DW-Hall O/S Rm 5	Hall O/S Rm 5	8.86	15.5	No
	027	HHE-ML-NS-Nurse Office 1	Nurse Office	2.07	15.5	No
	028	HHE-ML-NS-Nurse Office 2	Nurse Office	3.00	15.5	No
	029	HHE-ML-NS-Nurse Office 3	Nurse Office	3.27	15.5	No
	030	HHE-ML-DW-Hall O/S Nurse Office	Hall O/S Nurse Office	<1.00	15.5	No
	031	HHE-ML-FS-Teachers Room 1	Teachers Room	1.28	15.5	No
	032	HHE-ML-FS-Teachers Room 2	Teachers Room	5.26	15.5	No
	033	HHE-ML-DW-Hall O/S Tech Center	Hall O/S Tech Center	<1.00	15.5	No
	034	HHE-TL-S-Rm 112	Rm 112	<1.00	15.5	No
	035	HHE-TL-DW-Hall O/S Art Room	Hall O/S Art Room	6.50	15.5	No
	036	HHE-TL-DW-Hall O/S Gym Office	Hall O/S Gym Office	3.17	15.5	No
	037	HHE-TL-FP-Kitchen 1	Kitchen 1	4.94	15.5	No
108	038	HHE-TL-FP-Kitchen 2	Kitchen 2	195	15.5	Yes
108	039	HHE-TL-FP-Kitchen 3	Kitchen 3	46.3	15.5	Yes
	040	HHE-TL-FP-Kitchen 4	Kitchen 4	<1.00	15.5	No
	041	HHE-TL-S-O/S Kitchen	O/S Kitchen	1.25	15.5	No

Those sample points highlighted in yellow were reported by the analytical laboratory to contain lead in excess of the 15.5 parts per billion (ppb) action level. These units should be taken off line immediately.

-END OF SECTION-

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3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26

2. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".

3. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

Thirty nine 250-ml. first draw samples and one 250-ml. flush sample (Point of Entry) were collected from the facility at locations pre-determined by school personnel, along with one field blank for Quality Control Purposes.

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

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4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials.

For further information on guidance protocols and Action Levels that were followed please refer to:

1. N.J.A.C. 6A:26
2. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".
3. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

Based on a laboratory analysis after the initial round of sampling, the following are recommended:

1. Immediately discontinue using water at locations exceeding the NJDEP 15.5 ppb Action Level.
2. Assign a person of contact and immediately communicate exceedences to parties as indicated in N.J.A.C. 6A:26.
3. The next step in the Guidance Documents requires the collection of a flush sample at those sample points reported to contain lead in concentrations above the 15.5 ppb action level.

-END OF SECTION-

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5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC

Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

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APPENDIX I

LEAD IN DRINKING WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

SUBURBAN TESTING LABS

Results Report

Order ID: 7024022

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg NJ SD- Hamburg Elementary

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7024022-01 | Site: Field Blank | Sample ID: HHE—Field Blank
Collector: NPA | Collect Date: 02/25/2017 9:21 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:07	ADR

Sample Number: 7024022-02 | Site: RR 403 | Sample ID: HHE-LL-SPOE-RR 403
Collector: NPA | Collect Date: 02/25/2017 9:22 am | Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.35	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 13:57	ADR

Sample Number: 7024022-03 | Site: Meeting Rm | Sample ID: HHE-LL-DW-Meeting Rm
Collector: NPA | Collect Date: 02/25/2017 9:23 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	30.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:08	ADR

Sample Number: 7024022-04 | Site: Meeting Rm | Sample ID: HHE-LL-S-Meeting Rm
Collector: NPA | Collect Date: 02/25/2017 9:24 am | Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	34.6	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:10	ADR

Sample Number: 7024022-05 | Site: Admin Office | Sample ID: HHE-ML-DW-Admin Office
Collector: NPA | Collect Date: 02/25/2017 9:25 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	42.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:12	ADR

Report Generated On: 03/10/2017 4:09 pm 7024022
STL_Results Revision #1.6 Effective: 07/09/2014

Sample Number: 7024022-06 | Site: Admin Office | Sample ID: HHE-ML-S-Admin Office
Collector: NPA | Collect Date: 02/25/2017 9:26 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	36.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:14	ADR

Sample Number: 7024022-07 | Site: Music Rm | Sample ID: HHE-LL-DW-Music Rm
Collector: NPA | Collect Date: 02/25/2017 9:27 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.40	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:16	ADR

Sample Number: 7024022-08 | Site: Music Rm | Sample ID: HHE-LL-S-Music Rm
Collector: NPA | Collect Date: 02/25/2017 9:28 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	16.4	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:18	ADR

Sample Number: 7024022-09 | Site: Rm 15 | Sample ID: HHE-ML-DW-Rm 15
Collector: NPA | Collect Date: 02/25/2017 9:29 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.50	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:20	ADR

Sample Number: 7024022-10 | Site: Rm 15 | Sample ID: HHE-ML-S-Rm 15
Collector: NPA | Collect Date: 02/25/2017 9:30 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	17.2	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:22	ADR

Sample Number: 7024022-11 | Site: Rm 14 | Sample ID: HHE-ML-DW-Rm 14
Collector: NPA | Collect Date: 02/25/2017 9:31 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	4.05	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:30	ADR

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1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com
PADEP 06-00208

Sample Number: 7024022-12 Site: Rm 14 Sample ID: HHE-ML-S-Rm 14
Collector: NPA Collect Date: 02/25/2017 9:32 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.2	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:32	ADR

Sample Number: 7024022-13 Site: Rm 13 Sample ID: HHE-ML-DW-Rm 13
Collector: NPA Collect Date: 02/25/2017 9:33 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.11	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:34	ADR

Sample Number: 7024022-14 Site: Rm 13 Sample ID: HHE-ML-S-Rm 13
Collector: NPA Collect Date: 02/25/2017 9:34 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	39.8	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:36	ADR

Sample Number: 7024022-15 Site: Hall O/S Rm 13 Sample ID: HHE-ML-DW-Hall O/S Rm 13
Collector: NPA Collect Date: 02/25/2017 9:35 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	19.8	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:38	ADR

Sample Number: 7024022-16 Site: Rm 10 Sample ID: HHE-ML-DW-Rm 10
Collector: NPA Collect Date: 02/25/2017 9:36 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	10.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:39	ADR

Sample Number: 7024022-17 Site: Rm 10 Sample ID: HHE-ML-S-Rm 10
Collector: NPA Collect Date: 02/25/2017 9:37 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	10.8	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:41	ADR

Report Generated On: 03/10/2017 4:09 pm 7024022
STL_Results Revision #1.6 Effective: 07/09/2014

Sample Number: 7024022-18 | Site: Hall O/S Rm 10 | Sample ID: HHE-ML-DW-Hall O/S Rm 10
Collector: NPA | Collect Date: 02/25/2017 9:38 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	4.37	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:43	ADR

Sample Number: 7024022-19 | Site: Rm 9 | Sample ID: HHE-ML-DW-Rm 9
Collector: NPA | Collect Date: 02/25/2017 9:39 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	6.01	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:45	ADR

Sample Number: 7024022-20 | Site: Rm 9 | Sample ID: HHE-ML-S-Rm 9
Collector: NPA | Collect Date: 02/25/2017 9:40 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.0	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 14:47	ADR

Sample Number: 7024022-21 | Site: Rm 11 | Sample ID: HHE-ML-DW-Rm 11
Collector: NPA | Collect Date: 02/25/2017 9:41 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	7.97	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:33	ADR

Sample Number: 7024022-22 | Site: Rm 11 | Sample ID: HHE-ML-S-Rm 11
Collector: NPA | Collect Date: 02/25/2017 9:42 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.29	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:39	ADR

Sample Number: 7024022-23 | Site: Rm 12 | Sample ID: HHE-ML-DW-Rm 12
Collector: NPA | Collect Date: 02/25/2017 9:43 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	8.15	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:41	ADR

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Sample Number: 7024022-24 Site: Rm 12 Sample ID: HHE-ML-S-Rm 12
Collector: NPA Collect Date: 02/25/2017 9:44 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	6.38	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:43	ADR

Sample Number: 7024022-25 Site: Hall O/S Rm 12 Sample ID: HHE-ML-DW-Hall O/S Rm 12
Collector: NPA Collect Date: 02/25/2017 9:45 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.18	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:45	ADR

Sample Number: 7024022-26 Site: Hall O/S Rm 5 Sample ID: HHE-ML-DW-Hall O/S Rm 5
Collector: NPA Collect Date: 02/25/2017 9:46 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	8.86	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:47	ADR

Sample Number: 7024022-27 Site: Nurse Office Sample ID: HHE-ML-NS-Nurse Office 1
Collector: NPA Collect Date: 02/25/2017 9:47 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.07	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:56	ADR

Sample Number: 7024022-28 Site: Nurse Office Sample ID: HHE-ML-NS-Nurse Office 2
Collector: NPA Collect Date: 02/25/2017 9:48 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:58	ADR

Sample Number: 7024022-29 Site: Nurse Office Sample ID: HHE-ML-NS-Nurse Office 3
Collector: NPA Collect Date: 02/25/2017 9:49 am Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.27	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 16:59	ADR

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Sample Number: 7024022-30 | Site: Hall O/S Nurse Office | Sample ID: HHE-ML-DW-Hall O/S Nurse Office
Collector: NPA | Collect Date: 02/25/2017 9:50 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:01	ADR

Sample Number: 7024022-31 | Site: Teachers Room | Sample ID: HHE-ML-FS-Teachers Room 1
Collector: NPA | Collect Date: 02/25/2017 9:51 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.28	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:05	ADR

Sample Number: 7024022-32 | Site: Teachers Room | Sample ID: HHE-ML-FS-Teachers Room 2
Collector: NPA | Collect Date: 02/25/2017 9:52 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.26	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:07	ADR

Sample Number: 7024022-33 | Site: Hall O/S Tech Center | Sample ID: HHE-ML-DW-Hall O/S Tech Center
Collector: NPA | Collect Date: 02/25/2017 9:53 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:09	ADR

Sample Number: 7024022-34 | Site: Rm 112 | Sample ID: HHE-TL-S-Rm 112
Collector: NPA | Collect Date: 02/25/2017 9:54 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:11	ADR

Sample Number: 7024022-35 | Site: Hall O/S Art Room | Sample ID: HHE-TL-DW-Hall O/S Art Room
Collector: NPA | Collect Date: 02/25/2017 9:55 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	6.50	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:13	ADR

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PADEP 06-00208

Sample Number: 7024022-36 | Site: Hall O/S Gym Office | Sample ID: HHE-TL-DW-Hall O/S Gym Office
Collector: NPA | Collect Date: 02/25/2017 9:56 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.17	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:19	ADR

Sample Number: 7024022-37 | Site: Kitchen 1 | Sample ID: HHE-TL-FP-Kitchen 1
Collector: NPA | Collect Date: 02/25/2017 9:57 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	4.94	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:21	ADR

Sample Number: 7024022-38 | Site: Kitchen 2 | Sample ID: HHE-TL-FP-Kitchen 2
Collector: NPA | Collect Date: 02/25/2017 9:58 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	195	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:23	ADR

Sample Number: 7024022-39 | Site: Kitchen 3 | Sample ID: HHE-TL-FP-Kitchen 3
Collector: NPA | Collect Date: 02/25/2017 9:59 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	46.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:25	ADR

Sample Number: 7024022-40 | Site: Kitchen 4 | Sample ID: HHE-TL-FP-Kitchen 4
Collector: NPA | Collect Date: 02/25/2017 10:00 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/08/17 17:27	ADR

Sample Number: 7024022-41 | Site: O/S Kitchen | Sample ID: HHE-TL-S-O/S Kitchen
Collector: NPA | Collect Date: 02/25/2017 10:01 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.25	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/09/17 17:31	ADR

SUBURBAN TESTING LABS
1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com
PADEP 06-00208

SUBURBAN TESTING LABS

Sample Number: 7024022-42	Site: Laboratory Control Sample	Sample ID:
Collector:	Collect Date: 02/28/2017 12:00 am	Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.2	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/09/17 17:37	ADR

Sample Number: 7024022-43	Site: Laboratory Control Sample Duplicate	Sample ID:
Collector:	Collect Date: 02/28/2017 12:00 am	Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.3	µg/L	EPA 200.8	1.00	1	03/01/17	ADR	03/09/17 17:39	ADR

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager

Alana M. Kopicz

Report Generated On: 03/10/2017 4:09 pm 7024022
STL_Results Revision #1.6 Effective: 07/09/2014

7024022
Alana Kopicz

SUBURBAN TESTING LABS

Chain of Custody Record

TAT (Check

1037F MacArthur Road, Reading, PA 19605
610-375-TEST – Fax: 610-375-4080 – suburban testinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Hamburg Elementary
	West Chester, PA 19380	Email:	nabraham@westchesterenvironmental.com		
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Rush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Location Code
	Field Blank	02/25/17	09:21 AM	NPA	001	Pb EPA 200.8	1	PW	G	P	H	HHE---Field Blank
~~First~~ Flush	RR 403	02/25/17	09:22 AM	NPA	002	Pb EPA 200.8	1	PW	G	P	H	HHE-LL-SPOE-RR 403
First	Meeting Rm	02/25/17	09:23 AM	NPA	003	Pb EPA 200.8	1	PW	G	P	H	HHE-LL-DW-Meeting Rm
~~First~~ Flush	Meeting Rm	02/25/17	09:24 AM	NPA	004	Pb EPA 200.8	1	PW	G	P	H	HHE-LL-S-Meeting Rm
First	Admin Office	02/25/17	09:25 AM	NPA	005	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Admin Office
First	Admin Office	02/25/17	09:26 AM	NPA	006	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Admin Office
First	Music Rm	02/25/17	09:27 AM	NPA	007	Pb EPA 200.8	1	PW	G	P	H	HHE-LL-DW-Music Rm
First	Music Rm	02/25/17	09:28 AM	NPA	008	Pb EPA 200.8	1	PW	G	P	H	HHE-LL-S-Music Rm
First	Rm 15	02/25/17	09:29 AM	NPA	009	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 15
First	Rm 15	02/25/17	09:30 AM	NPA	010	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 15

pg 2

Relinquished by:

Date: 2/27/17
Time: 17:00

Received By: 2coolers

Date: 2/28/17 Temp °C: 23.2/none
Time: 1130 Acceptable Y / N

Relinquished by: (10)

Date: 2/28/17 Temp °C: 22.3
Time: 1345 Acceptable (Y) N

Received in Lab By:

Date: 2/28/17 Temp °C:
Time: 1345 Acceptable (Y) N

Reporting options
- SWDA Reportin
- Fax
- Email
- Other
- Return a copy of

7024022
Alana Kopicz

SUBURBAN TESTING LABS

TESTING LABS

Chain of Custody Record

TAT (Check

1037F MacArthur Road, Reading, PA 19605
610-375-TEST -- Fax: 610-375-4090 – suburbantestinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Hamburg Elementary
	West Chester, PA 19380	Email:	nabraham@westchesterenvironmental.com		
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type *	Preservative	Location Code
First	Rm 14	02/25/17	09:31 AM	NPA	011	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 14
First	Rm 14	02/25/17	09:32 AM	NPA	012	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 14
First	Rm 13	02/25/17	09:33 AM	NPA	013	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 13
First	Rm 13	02/25/17	09:34 AM	NPA	014	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 13
First	Hall o/s Rm 13	02/25/17	09:35 AM	NPA	015	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Rm 13
First	Rm 10	02/25/17	09:36 AM	NPA	016	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 10
First	Rm 10	02/25/17	09:37 AM	NPA	017	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 10
First	Hall o/s Rm 10	02/25/17	09:38 AM	NPA	018	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Rm 10
First	Rm 9	02/25/17	09:39 AM	NPA	019	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 9
First	Rm 9	02/25/17	09:40 AM	NPA	020	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 9

pH<2

Relinquished by: Noel Abraham Date: 2/27/17 Time: 17:00

Received By: 2 coolers Date: 2/28/17 Temp °C: 23.4 none Time: 1130 Acceptable Y / N

Relinquished by: (IC) Date: 2/28/17 Temp °C: 22.3 Time: 1345 Acceptable (Y) N

Received in Lab By: Date: 2/28/17 Temp °C: Time: 1345 Acceptable (Y) N

Reporting options
- SWDA Reportin
- Fax
- Email
- Other
- Return a copy of

7024022
Alana Kopicz

SUBURBAN TESTING LABS

TESTING LABS

Chain of Custody Record

TAT (Check C

1037F MacArthur Road, Reading, PA 19605
610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Hamburg Elementary
	West Chester, PA 19380	Email:	nabraham@westchesterenvironmental.com		
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Rush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type *	Preservative	Location Code
First	Rm 11	02/25/17	09:41 AM	NPA	021	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 11
First	Rm 11	02/25/17	09:42 AM	NPA	022	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 11
First	Rm 12	02/25/17	09:43 AM	NPA	023	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Rm 12
First	Rm 12	02/25/17	09:44 AM	NPA	024	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-S-Rm 12
First	Hall o/s Rm 12	02/25/17	09:45 AM	NPA	025	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Rm 12
First	Hall o/s Rm 5	02/25/17	09:46 AM	NPA	026	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Rm 5
First	Nurse Office	02/25/17	09:47 AM	NPA	027	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-NS-Nurse Office 1
First	Nurse Office	02/25/17	09:48 AM	NPA	028	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-NS-Nurse Office 2
First	Nurse Office	02/25/17	09:49 AM	NPA	029	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-NS-Nurse Office 3
First	Hall o/s Nurse Office	02/25/17	09:50 AM	NPA	030	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Nurse Office

pH<2

Relinquished by:

Date: 2/27/17
Time: 17:00

Received By:

Date: 2/28/17 Temp °C: 23.4 none
Time: 1130 Acceptable Y / N
2 coolers

Relinquished by:

Date: 2/28/17 Temp °C: 22.3
Time: 1345 Acceptable (Y) / N

Received in Lab By:

Date: 2/28/17 Temp °C:
Time: 1345 Acceptable (Y) / N

Reporting options
SWDA Reportin
Fax
Email
Other
Return a copy of

7024022
Alana Kopicz

SUBURBAN TESTING LABS

TESTING LABS

Chain of Custody Record

TAT (Check One)

1037F MacArthur Road, Reading, PA 19605
610-375-TEST ~ Fax: 610-375-4090 ~ suburban testinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Hamburg Elementary
	West Chester, PA 19380	Email:	nabraham@westchesterenvironmental.com		
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Rush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type *	Preservative	Location Code
First	Teachers Room	02/25/17	09:51 AM	NPA	031	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-FS-Teachers Room 1
First	Teachers Room	02/25/17	09:52 AM	NPA	032	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-FS-Teachers Room 2
First	Hall o/s Tech Center	02/25/17	09:53 AM	NPA	033	Pb EPA 200.8	1	PW	G	P	H	HHE-ML-DW-Hall o/s Tech Center
First	Rm 112	02/25/17	09:54 AM	NPA	034	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-S-Rm 112
First	Hall o/s Art Room	02/25/17	09:55 AM	NPA	035	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-DW-Hall o/s Art Room
First	Hall o/s Gym Office	02/25/17	09:56 AM	NPA	036	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-DW-Hall o/s Gym Office
First	Kitchen 1	02/25/17	09:57 AM	NPA	037	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-FP-Kitchen 1
First	Kitchen 2	02/25/17	09:58 AM	NPA	038	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-FP-Kitchen 2
First	Kitchen 3	02/25/17	09:59 AM	NPA	039	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-FP-Kitchen 3
First	Kitchen 4	02/25/17	10:00 AM	NPA	040	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-FP-Kitchen 4

pH<2

Relinquished by: Date: 2/27/17 Time: 17:00

Received By: 2 coolers Date: 2/28/17 Temp °C: 23.4 none Time: 1130 Acceptable Y / N

Relinquished by: (10) Date: 2/28/17 Temp °C 22.3 Time: 1345 Acceptable (Y) / N

Received in Lab By: Date: 2/28/17 Temp °C: Time: 1345 Acceptable (Y) / N

Reporting options
- SWDA Reportin
- Fax
- Email
- Other
- Return a copy of

7024022
Alana Kopicz

SUBURBAN TESTING LABS

TESTING LABS

Chain of Custody Record

TAT (Check One) Standard

1037F MacArthur Road, Reading, PA 19605
610-375-TEST – Fax: 610-375-4090 – suburbantestinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Hamburg Elementary
	West Chester, PA 19380	Email:	nabraham@westchesterenvironmental.com		
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Rush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type *	Preservative	Location Code
First	o/s Kitchen	02/25/17	10:01 AM	NPA	041	Pb EPA 200.8	1	PW	G	P	H	HHE-TL-S-o/s Kitchen

pH<2

Relinquished by: [signature] Date: 2/27/17 Time: 17:00

Received By: [signature] 2 coolers Date: 2/28/17 Temp °C: 23.4 temp Time: 1130 Acceptable Y / N

Relinquished by: [signature] (1) Date: 2/28/17 Temp °C: 22.3 Time: 1345 Acceptable Y / N

Received in Lab By: [signature] Date: 2/28/17 Temp °C: Time: 1345 Acceptable Y / N

Reporting options
- SWDA Reportin
- Fax
- Email
- Other
- Return a copy of

pH-MJW-2/28/17

LEAD IN DRINKING WATER REPORT
HAMBURG, NJ SCHOOL DISTRICT

PERFORMED FOR:
HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA 19380

APRIL 2017

Westchester Environmental, LLC

April 5, 2017

Mr. William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg, NJ 07419

Re: LEAD IN DRINKING WATER REPORT-SECOND ROUND EVENT

Dear Mr. Sabo,

Please find enclosed the report for the Lead in Drinking Water sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

Paul F. McCaa
Senior Environmental Specialist

TABLE OF CONTENTS

HAMBURG, NJ SCHOOL DISTRICT

1.0 INTRODUCTION……..…….1

2.0 SUMMARY OF FINDINGS……..……..……2

3.0 SAMPLING AND ANALYSES...……..……3

4.0 DISCUSSION & RECOMMENDATIONS……...……..…..……..4

5.0 DISCLAIMER…….5

Appendix I – Water Sampling Chain-of-Custody & Laboratory Reports

1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Bill Sabo to conduct follow-up Drinking Water Sampling for Lead for the Hamburg, NJ School District Facilities, 30 Linwood Avenue, Hamburg, NJ 07419

The water sampling was performed on March 23, 2017, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect and analyze flush water samples at those locations that exceeded the NJDEP action level of 15.5 parts per billion (ppb) from the first round of sampling (initial draw samples).

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

Follow-up flush water samples were collected from those fixtures where lead levels had exceeded the Action Level of 15.5 ppb during the initial testing conducted on February 23, 2017 and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Table 1 Hamburg Elementary

Sample Number (Flush)		Location	Result 02/25/2017	Result 3/23/2017	Action Level	Over Limit 2/25/2017	Over Limit 3/23/2017
			ppb	ppb	ppb	Yes/No	Yes/No
001	Field Blank	NA					
002	HHE-LL-DW-Meeting Rm	Meeting Rm	30.3	34.1	15.5	Yes	Yes
003	HHE-LL-S-Meeting Rm	Meeting Rm	34.6	32.9	15.5	Yes	Yes
004	HHE-LL-DW-Admin Office	Admin Office	42.3	32.1	15.5	Yes	Yes
005	HHE-LL-S-Admin Office	Admin Office	36.3	18.2	15.5	Yes	Yes
006	HHE-LL-S-Music Rm	Music Rm	16.4	34.7	15.5	Yes	Yes
007	HHE-ML-S-Rm 15	Rm 15	17.2	1.41	15.5	Yes	No
008	HHE-ML-S-Rm 13	Rm 13	39.8	11.3	15.5	Yes	No
009	HHE-ML-DW-Hall O/S Rm 13	Hall O/S Rm 13	19.8	26.9	15.5	Yes	Yes
010	HHE-ML-FP-Kitchen 2	Kitchen 2	195	2.98	15.5	Yes	No
011	HHE-ML-FP-Kitchen 3	Kitchen 3	46.3	3.58	15.5	Yes	No

Those sample points highlighted in yellow were reported by the analytical laboratory to contain lead in excess of the 15.5 parts per billion (ppb) action level.

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26 includes School District Sampling Plan and Quality Assurance Project Plan.

2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

Ten (10) 250 ml. Flush samples were collected from the facility at locations where lead levels had exceeded the Action Level of 15.5 ppb during the initial testing, along with one field blank for Quality Control Purposes.

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials.

1. N.J.A.C. 6A:26 includes District Sampling Plan and Quality Assurance Project Plan

2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

Based on a laboratory analysis after the initial and follow-up rounds of sampling, the following conclusions can be drawn:

1. Follow-up sample results for fixtures that are below the action level of 15.5 ppb indicate that the fixture itself could be contributing to the high lead levels in the initial round of first draw samples.
   Continue to keep these units off line until remedial action for those units is completed and the water sampled to determine the effectiveness of the remediation measures taken.

2. Follow-up sample results for fixtures that are above the action level of 15.5 ppb indicate that the lead contamination is also impacted by the water distribution system piping upstream of the sample points.
   Continue to keep these units off line until remedial action for those units is completed and the water sampled to determine the effectiveness of the remediation measures taken.

The type of samples collected for this assessment are referred to as flush samples. Flush samples are individual discrete samples collected at a specific time and location and are reflective of the conditions at that time of collection. It is important to note that the Lead Hazard Assessment was a snap shot of the conditions existing at the time of the assessment and conditions may vary with time.

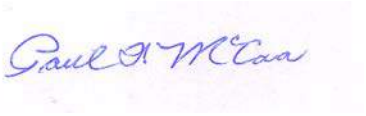
-END OF SECTION-

5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC



Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

Westchester Environmental

APPENDIX I

LEAD IN DRINKING WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

SUBURBAN TESTING LABS

Results Report

Order ID: 7033969

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7033969-01 Site: HHE---Field Blank Sample ID: HHE---Field Blank
Collector: PFM Collect Date: 03/23/2017 12:00 am Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 12:55	RPV

Sample Number: 7033969-02 Site: HHE-LL-DW-Meeting Rm Sample ID: HHE-LL-DW-Meeting Rm
Collector: PFM Collect Date: 03/23/2017 3:27 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	34.1	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 12:57	RPV

Sample Number: 7033969-03 Site: HHE-LL-S-Meeting Rm Sample ID: HHE-LL-S-Meeting Rm
Collector: PFM Collect Date: 03/23/2017 3:30 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	32.9	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 12:59	RPV

Sample Number: 7033969-04 Site: HHE-LL-DW-Admin Office Sample ID: HHE-LL-DW-Admin Office
Collector: PFM Collect Date: 03/23/2017 3:35 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	32.1	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:01	RPV

Sample Number: 7033969-05 Site: HHE-LL-S-Admin Office Sample ID: HHE-LL-S-Admin Office
Collector: PFM Collect Date: 03/23/2017 3:48 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	18.2	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:03	RPV

Report Generated On: 03/31/2017 6:20 pm 7033969
STL_Results Revision #1.6 Effective: 07/09/2014

Sample Number: 7033969-06 Site: HHE-LL-S-Music Rm Sample ID: HHE-LL-S-Music Rm
Collector: PFM Collect Date: 03/23/2017 3:48 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	34.7	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:07	RPV

Sample Number: 7033969-07 Site: HHE-ML-S-Rm 15 Sample ID: HHE-ML-S-Rm 15
Collector: PFM Collect Date: 03/23/2017 3:54 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.41	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:09	RPV

Sample Number: 7033969-08 Site: HHE-ML-S-Rm 13 Sample ID: HHE-ML-S-Rm 13
Collector: PFM Collect Date: 03/23/2017 3:58 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	11.3	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:10	RPV

Sample Number: 7033969-09 Site: HHE-ML-DW-Hall O/S Rm 13 Sample ID: HHE-ML-DW-Hall O/S Rm 13
Collector: PFM Collect Date: 03/23/2017 4:01 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	26.9	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:12	RPV

Sample Number: 7033969-10 Site: HHE-ML-FP-Kitchen 2 Sample ID: HHE-ML-FP-Kitchen 2
Collector: PFM Collect Date: 03/23/2017 4:05 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.98	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:18	RPV

Sample Number: 7033969-11 Site: HHE-ML-FP-Kitchen 3 Sample ID: HHE-ML-FP-Kitchen 3
Collector: PFM Collect Date: 03/23/2017 4:07 pm Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.58	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:20	RPV

SUBURBAN TESTING LABS
1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com
PADEP 06-00208

SUBURBAN TESTING LABS

Sample Number: 7033969-12 | Site: Laboratory Control Sample | Sample ID:
Collector: | Collect Date: 03/24/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.6	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:25	RPV

Sample Number: 7033969-13 | Site: Laboratory Control Sample Duplicate | Sample ID:
Collector: | Collect Date: 03/24/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.8	µg/L	EPA 200.8	1.00	1	03/25/17	RPV	03/31/17 13:27	RPV

Sample Receipt Conditions:
All samples met the sample receipt requirements for the relevant analyses.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager

Alana M. Kopicz

Report Generated On: 03/31/2017 6:20 pm 7033969
STL_Results Revision #1.6 Effective: 07/09/2014

SUBURBAN TESTING LABS

1037F MacArthur Roa

7033969
Alana Kopicz

Standard

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg
Address:	307 N. Walnut Street	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments:

Rush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
Flush	HHE—Field Blank	03/23/17	NA	PFM	HHE---Field Blank	Pb EPA 200.8	1	PW	G	P	H	pH<2 001
Flush	HHE-LL-DW-Meeting Rm	03/23/17	03:27 PM	PFM	HHE-LL-DW-Meeting Rm	Pb EPA 200.8	1	PW	G	P	H	pH<2 002
Flush	HHE-LL-S-Meeting Rm	03/23/17	03:30 PM	PFM	HHE-LL-S-Meeting Rm	Pb EPA 200.8	1	PW	G	P	H	pH<2 003
Flush	HHE-LL-DW-Admin Office	03/23/17	03:35 PM	PFM	HHE-LL-DW-Admin Office	Pb EPA 200.8	1	PW	G	P	H	pH<2 004
Flush	HHE-LL-S-Admin Office	03/23/17	03:48 PM	PFM	HHE-LL-S-Admin Office	Pb EPA 200.8	1	PW	G	P	H	pH<2 005
Flush	HHE-LL-S-Music Rm	03/23/17	03:48 PM	PFM	HHE-LL-S-Music Rm	Pb EPA 200.8	1	PW	G	P	H	pH<2 006
Flush	HHE-ML-S-Rm 15	03/23/17	03:54 PM	PFM	HHE-ML-S-Rm 15	Pb EPA 200.8	1	PW	G	P	H	pH<2 007
Flush	HHE-ML-S-Rm 13	03/23/17	03:58 PM	PFM	HHE-ML-S-Rm 13	Pb EPA 200.8	1	PW	G	P	H	pH<2 008
Flush	HHE-ML-DW-Hall o/s Rm 13	03/23/17	04:01 PM	PFM	HHE-ML-DW-Hall o/s Rm 13	Pb EPA 200.8	1	PW	G	P	H	pH<2 009
Flush	HHE-ML-FP-Kitchen 2	03/23/17	04:05 PM	PFM	HHE-ML-FP-Kitchen 2	Pb EPA 200.8	1	PW	G	P	H	pH<2 010

pH chk FCK 3/24/17

Relinquished by: Paul McCaa — Date: 03/24/17 — Time:

Received By: — Date: 3/24/17 Temp °C: 12.1 porch — Time: 1205 Acceptable Y / N

Relinquished by: — Date: 3/24/17 Temp °C 0.4 Ice — Time: 1540 Acceptable (Y) N

Received in Lab By: — Date: 3/24/17 Temp °C — Time: 1540 Acceptable (Y) N

Sample Conditions

Submitted w/ COC	Y / N
Number of containers match number on COC ?	Y / N
All containers intact	Y / N
Tests within holding times	Y / N
40 ml VOA vials free of headspace ?	Y / N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge,soil, etc (reported as mg/l)
PW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab
8 HC = 8 Hour Composite
24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution
E = Entry Point
R = Raw
C = Check
S = Special
M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O = Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
H = HNO3
C = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

SWDA Reporting PW
SID
Fax
X Email
Other
Return a copy of this form with Report

SUBURBAN TESTING LABS

TESTING LABS

1037F MacArthur Road, Rei

7033969

Alana Kopicz

dard

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg
Address:	307 N. Walnut Street	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
Flush	HHE-ML-FP-Kitchen 3	03/23/17	04:07 AM	PFM	HHE-ML-FP-Kitchen 3	Pb EPA 200.8	1	PW	G	P	H	011
Flush												
Flush												
Flush												
Flush												
Flush												
Flush												
Flush												
Flush												
Flush												

pH chk FCK 3/24/17

Relinquished by: Paul McCaa Date: 03/24/17

Time:

Received By: Date: 3/24/17 Temp °C: 12.1 north

Time: 1205 Acceptable Y / N

Relinquished by: Date: 3/24/17 Temp °C: 0.4 Ice

Time: 1540 Acceptable Y / N

Received in Lab By: Date: 3/24/17 Temp °C:

Time: 1540 Acceptable Y / N

Sample Conditions

Submitted w/ COC	Y / N
Number of containers match number on COC ?	Y / N
All containers intact	Y / N
Tests within holding times	Y / N
40 mL VOA vials free of headspace ?	Y / N

Matrix Key

NPW = Non-Potable Water

Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as matl)

PW = Potable Water (not for SWDA compliance)

SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab

8 HC = 8 Hour Composite

24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution

E = Entry Point

R = Raw

C = Check

S = Special

M = Maximum Residence

Bottle Type Key

P = Plastic

G = Glass

O = Other

Preservative Key

H = Sodium Thiosulphate

A = Ascorbic Acid

N = HNO3

C = HCl

S = H_2SO_4

OH = NaOH

O = Other

NA = None Required

Reporting options

- SWDA Reporting PW SID
- Fax
- X Email
- Other
- Return a copy of this form with Report

LEAD IN DRINKING WATER
POST REMEDIATION REPORT
HAMBURG, NJ SCHOOL DISTRICT

PERFORMED FOR:
HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA 19380

JUNE, 2017

Westchester Environmental, LLC

June 30, 2017

Mr William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg , NJ 07419

Re: LEAD IN DRINKING WATER POST-REMEDIATION REPORT

Dear Mr. Sabo,

Please find enclosed the report for the Lead in Drinking Water Post-Remediation sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

Paul F. McCaa
Senior Environmental Specialist

TABLE OF CONTENTS

HAMBURG, NJ SCHOOL DISTRICT

1.0 INTRODUCTION……..……1

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3.0 SAMPLING AND ANALYSES...……..……3

4.0 DISCUSSION & RECOMMENDATIONS……...……..…..……..4

5.0 DISCLAIMER…….5

Appendix I – Water Sampling Chain-of-Custody & Laboratory Reports

1.0 INTRODUCTION

Westchester Environmental, LLC. was contracted by Bob Zierden to conduct Drinking Water Sampling for Lead at the Hamburg Elementary School following remediation measures undertaken by the district.

The water sampling was performed on June 12, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples following remediation activities conducted at those locations in the facility that exceeded the NJDEP action level of 15.5 parts per billion (ppb) during the second round of sampling (flush samples) in order to evaluate the effectiveness of the remediation activities undertaken by the district and have them analyzed for lead levels.

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

Post Remediation, First Draw water samples were collected from those fixtures where lead levels had exceeded the Action Level of 15.5 ppb during the Flush Sample testing conducted on March 23, 2017 and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Post-Remediation, Flush water samples were collected from those fixtures where lead levels had exceeded the Action Level of 15.5 ppb during the Post-Remediation (First Draw) testing conducted on June 12, 2017 and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Table 1 Hamburg Elementary Post-Remediation

Sample Number		Location	Result 6/12/2017 First Draw	Result 6/12/2017 Flush	Action Level	Over Limit 6/12/2017 First Draw	Over Limit 6/12/2017 Flush
			ppb	ppb	ppb	Yes/No	Yes/No
	Field Blank	NA	<1.00				
	HHE-LL-S-Meeting Rm	Meeting Rm	52.4	1.79	15.5	Yes	No
	HHE-LL-S-Admin Office	Admin Office	4030	1.16	15.5	Yes	No
	HHE-LL-S-Music Rm	Music Rm	1.78	NA*	15.5	NA	NA
	HHE-ML-FP-Kitchen 2	Kitchen 2	11.9	NA*	15.5	NA	NA
	HHE-ML-FP-Kitchen 3	Kitchen 3	3.37	NA*	15.5	NA	NA

Those sample points highlighted in yellow were reported by the analytical laboratory to contain lead in excess of the 15.5 parts per billion (ppb) action level.

* Post-Remediation Flush Samples were analyzed for only those sample locations where Post-Remediation First Draw sample results were in excess of the 15.5 parts per billion (ppb) action level for lead

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26 Educational Facilities

2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

3. and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials.

For further information on guidance protocols and Action Levels that were followed please refer to The EPA's Revised Technical Guidance - "**3Ts for Reduced Lead in Drinking Water in Schools**" and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "**Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water**".

Based on a laboratory analysis after the initial and follow-up rounds of sampling, the following conclusions can be drawn:

1. **Post Remediation First Draw** sample results for fixtures that are above the action level of 15.5 ppb indicate that the remedial actions taken by the district did not correct the lead level problem at those locations.

2. **Post-Remediation Flush** sample results for fixtures were reported as being below the action level of 15 ppb. This could indicate that the fixture itself could be contributing to the high lead levels.

   Continue to keep these units off line until further investigation and/or remedial action for those units is completed and the water sampled to determine the effectiveness of the additional remediation measures taken.

The type of samples collected for this assessment are referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location and are reflective of the conditions at that time of collection. Since conditions may vary over time we recommend periodic sampling to monitor the lead concentrations at the facilities.

It is important to note that the Lead Hazard Assessment was a snap shot of the conditions existing at the time of the assessment and conditions may vary with time.

-END OF SECTION-

5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC

Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

Westchester Environmental

APPENDIX I

LEAD IN DRINKING WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

Results Report

Order ID: 7062651

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7062651-01 | Site: HHE--- Field Blank | Sample ID: HHE---Field Blank
Collector: PFM | Collect Date: 06/12/2017 6:58 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:24	RPV

Sample Number: 7062651-02 | Site: HHE-LL-S-Meeting Rm | Sample ID: HHE-LL-S-Meeting Rm
Collector: PFM | Collect Date: 06/12/2017 7:13 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	52.4	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:26	RPV

Sample Number: 7062651-03 | Site: HHE-LL-S-Admin Office | Sample ID: HHE-LL-S-Admin Office
Collector: PFM | Collect Date: 06/12/2017 7:14 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	4030	µg/L	EPA 200.8	10.0	10	06/14/17	RJS	06/22/17 20:42	RPV

Sample Number: 7062651-04 | Site: HHE-LL-S-Music Rm | Sample ID: HHE-LL-S-Music Rm
Collector: PFM | Collect Date: 06/12/2017 7:10 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.78	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:38	RPV

Sample Number: 7062651-05 | Site: HHE-ML-FP-Kitchen 2 | Sample ID: HHE-ML-FP-Kitchen 2
Collector: PFM | Collect Date: 06/12/2017 6:59 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	11.9	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:40	RPV

Report Generated On: 06/27/2017 7:16 pm 7062651
STL_Results Revision #1.6 Effective: 07/09/2014

Sample Number: 7062651-06 | Site: HHE-ML-FP-Kitchen 3 | Sample ID: HHE-ML-FP-Kitchen 3
Collector: PFM | Collect Date: 06/12/2017 7:00 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.37	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:42	RPV

Sample Number: 7062651-07 | Site: Laboratory Control Sample | Sample ID:
Collector: PFM | Collect Date: 06/13/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.5	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:44	RPV

Sample Number: 7062651-08 | Site: Laboratory Control Sample Duplicate | Sample ID:
Collector: PFM | Collect Date: 06/13/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.4	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/21/17 23:46	RPV

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager

Report Generated On: 06/27/2017 7:16 pm 7062651
STL_Results Revision #1.6 Effective: 07/09/2014

3

7062651
Alana Kopicz

SUBURBAN TESTING LABS

Chain of Custody Record

1037F MacArthur Road, Reading, PA 19605 610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg
Address:	307 N. Walnut Street	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments:

Flush / First Draw	Sample Description / Site ID	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
First Draw	HHE---Field Blank	06/12/17	06:58 AM	PFM	HHE---Field Blank pH<2	Pb EPA 200.8	1	PW	G	P	H	001
First Draw	HHE-LL-S-Meeting Rm	06/12/17	07:13 AM	PFM	HHE-LL-S-Meeting Rm pH<2	Pb EPA 200.8	1	PW	G	P	H	003
First Draw	HHE-LL-S-Admin Office	06/12/17	07:14 AM	PFM	HHE-LL-S-Admin Office pH<2	Pb EPA 200.8	1	PW	G	P	H	005
First Draw	HHE-LL-S-Music Rm	06/12/17	07:10 AM	PFM	HHE-LL-S-Music Rm pH<2	Pb EPA 200.8	1	PW	G	P	H	006
First Draw	HHE-ML-FP-Kitchen 2	06/12/17	06:59 AM	PFM	HHE-ML-FP-Kitchen 2 pH<2	Pb EPA 200.8	1	PW	G	P	H	010
First Draw	HHE-ML-FP-Kitchen 3	06/12/17	07:00 AM	PFM	HHE-ML-FP-Kitchen 3 pH<2	Pb EPA 200.8	1	PW	G	P	H	011

pHV MAW 6/13/17

Relinquished by: Paul McCaa — Date: 06/12/17 — Time:

Received By: [signature] (5) — Date: 6/13/17 — Temp °C: 26.8 ICE Emm — Time: 0851 — Acceptable Y / N

Relinquished by: [signature] — Date: 6/13/17 — Temp °C: 1.2 — Time: 1508 — Acceptable Y / N

Received In Lab By: (6) [signature] EMA 6/13 — Date: 6/13/17 — Temp °C: 1.2 — Time: 15:08 — Acceptable Y / N

Sample Conditions

Submitted w/ COC	Y / N
Number of containers match number on COC ?	Y / N
All containers intact	Y / N
Tests within holding times	Y / N
40 ml. VOA vials free of headspace ?	Y / N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l)
PW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab
8 HC = 8 Hour Composite
24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution
E = Entry Point
R = Raw
C = Check
S = Special
M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O = Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
H = HNO3
C = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

	SWDA Reporting SID PW
	Fax
X	Email
	Other
	Return a copy of this form with Report

SUBURBAN TESTING LABS

Results Report

Order ID: 7062668

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7062668-01 | Site: HHE-LL-S-Meeting Rm | Sample ID: HHE-LL-S-Meeting Rm
Collector: PFM | Collect Date: 06/12/2017 7:13 am | Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.79	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/24/17 17:43	RPV

Sample Number: 7062668-02 | Site: HHE-LL-S-Admin Office | Sample ID: HHE-LL-S-Admin Office
Collector: PFM | Collect Date: 06/12/2017 7:14 am | Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.16	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/24/17 17:49	RPV

Sample Number: 7062668-06 | Site: Laboratory Control Sample | Sample ID:
Collector: | Collect Date: 06/13/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.1	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/24/17 18:05	RPV

Sample Number: 7062668-07 | Site: Laboratory Control Sample Duplicate | Sample ID:
Collector: | Collect Date: 06/13/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.0	µg/L	EPA 200.8	1.00	1	06/14/17	RJS	06/24/17 18:07	RPV

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 07/07/2017 4:58 pm 7062668
STL_Results Revision #1.6 Effective: 07/09/2014

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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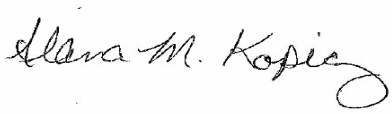
Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager



SUBURBAN TESTING LABS
1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com
PADEP 06-00208

3

SUBURBAN TESTING LABS

Chain of Custody Record

1037F MacArthur Road, Reading, PA 19606 testinglabs.com 610-375-TEST – Fax: 610-375-4090 – suburban

TAT (Check One) Standard

7062668
Alana Kopicz

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg
Address:	307 N. Walnut Street	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
Flush	HHE-LL-S-Meeting Rm	06/12/17	07:13 AM	PFM	HHE-LL-S-Meeting Rm pH<2	Pb EPA 200.8	1	PW	G	P	H	003F
Flush	HHE-LL-S-Admin Office	06/12/17	07:14 AM	PFM	HHE-LL-S-Admin Office pH<2	Pb EPA 200.8	1	PW	G	P	H	005F
Flush	HHE-LL-S-Music Rm	06/12/17	07:10 AM	PFM	HHE-LL-S-Music Rm pH<2 EPA 6/13	Pb EPA 200.8	1	PW	G	P	H	006F
Flush	HHE-ML-S-Kitchen 2	06/12/17	06:59 AM	PFM	HHE-ML-S-Kitchen 2 pH<2	Pb EPA 200.8	1	PW	G	P	H	010F
Flush	HHE-ML-DW-Kitchen 3	06/12/17	07:00 AM	PFM	HHE-ML-DW-Kitchen 3 pH<2	Pb EPA 200.8	1	PW	G	P	H	011F

pH ✓ MAW 6/13/17

Relinquished by: Paul McCaa Date: 06/12/17 Time:

Received By: [signature] (6) Date: 6/13/17 Time: 0851 Temp °C: 26.8 Acceptable Y / N Ice Jam

Relinquished by: [signature] Date: 6/13/17 Time: 1508 Temp °C: 1.2 Acceptable Y / N

Received in Lab By: (5) [signature] EPA 6/13 Date: 6/13/17 Time: 1500 Temp °C: 1.2 Acceptable Y / N

Sample Conditions

Submitted w/ COC Y/N

Number of containers match number on COC? Y/N

All containers intact Y/N

Tests within holding times? Y/N

40 ml. VOA vials free of headspace? Y/N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l)
PW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab
8 HC = 8 Hour Composite
24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution
E = Entry Point
R = Raw
C = Check
S = Special
M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O = Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
H = HNO3
S = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

SWDA Reporting SID PW
Fax
X Email
Other
Return a copy of this form with Report

Hold flush samples pending standing (First Draw) Results.

LEAD IN DRINKING WATER
POST REMEDIATION (2) REPORT
HAMBURG, NJ SCHOOL DISTRICT

PERFORMED FOR:
HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA 19380

AUGUST 8, 2017

August 8, 2017

Mr. William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg, NJ 07419

Re: LEAD IN DRINKING WATER POST-REMEDIATION (2) REPORT

Dear Mr. Sabo,

Please find enclosed the report for the Lead in Drinking Water Post-Remediation (2) sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

Paul F. McCaa
Senior Environmental Specialist

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HAMBURG, NJ SCHOOL DISTRICT

1.0 INTRODUCTION……..…….1

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4.0 DISCUSSION & RECOMMENDATIONS……...……..…..……..4

5.0 DISCLAIMER…….5

Appendix I – Water Sampling Chain-of-Custody & Laboratory Reports

1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Bob Zierden to conduct Drinking Water Sampling for Lead at the Hamburg Elementary School following remediation measures undertaken by the district for the Admin Office & Meeting Room sinks.

The water sampling was performed on July 25, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples following remediation activities conducted at those locations in the facility that exceeded the NJDEP action level of 15.5 parts per billion (ppb) during the second round of sampling (flush samples) in order to evaluate the effectiveness of the remediation activities undertaken by the district and have them analyzed for lead levels.

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

Post Remediation, First Draw water samples were collected from those fixtures where lead levels had exceeded the Action Level of 15.5 ppb during the Post-Remediation Sample testing conducted on June 12, 2017 and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Table 1 Hamburg Elementary Post-Remediation (2)

Sample Number		Location	Result 6/12/2017 First Draw	Result 7/25/2017 First Draw	Action Level	Over Limit 6/12/2017 First Draw	Over Limit 7/25/2017 First Draw
			ppb	ppb	ppb	Yes/No	Yes/No
	Field Blank	NA	<1.00				
	HHE-LL-S-Meeting Rm	Meeting Rm	52.4	<1.00	15.5	Yes	No
	HHE-LL-S-Admin Office	Admin Office	4030	1.17	15.5	Yes	No

Those sample points highlighted in yellow were reported by the analytical laboratory to contain lead in excess of the 15.5 parts per billion (ppb) action level.

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26 Educational Facilities
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials.

For further information on guidance protocols and Action Levels that were followed please refer to The EPA's Revised Technical Guidance - "**3Ts for Reduced Lead in Drinking Water in Schools**" and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "**Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water**".

Based on a laboratory analysis after the post-remediation sampling, the following conclusions can be drawn:

1. **Post Remediation First Draw** sample results for fixtures that are above the action level of 15.5 ppb indicate that the remedial actions taken by the district were successful in correcting the lead level problem at those locations.

The type of samples collected for this assessment are referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location and are reflective of the conditions at that time of collection. Since conditions may vary over time we recommend periodic sampling to monitor the lead concentrations at the facilities.

It is important to note that the Lead Hazard Assessment was a snap shot of the conditions existing at the time of the assessment and conditions may vary with time.

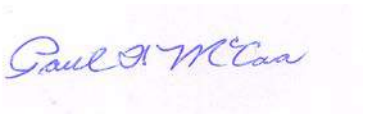
-END OF SECTION-

5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC



Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

Westchester Environmental

APPENDIX I

LEAD IN DRINKING POST-REMEDIATION (2) WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

Results Report

Order ID: 7074887

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7074887-01 | Site: HHE--- Field Blank | Sample ID: HHE---Field Blank
Collector: PFM | Collect Date: 07/25/2017 8:24 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	07/27/17	RPV	08/04/17 21:21	RPV

Sample Number: 7074887-02 | Site: HHE-ML-S-Admin Office | Sample ID: HHE-ML-S-Admin Office
Collector: PFM | Collect Date: 07/25/2017 8:25 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.17	µg/L	EPA 200.8	1.00	1	07/27/17	RPV	08/04/17 21:23	RPV

Sample Number: 7074887-03 | Site: HHE-LL-S-Meeting Rm | Sample ID: HHE-LL-S-Meeting Rm
Collector: PFM | Collect Date: 07/25/2017 8:27 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	07/27/17	RPV	08/04/17 21:33	RPV

Sample Number: 7074887-04 | Site: Laboratory Control Sample | Sample ID:
Collector: | Collect Date: 07/26/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.5	µg/L	EPA 200.8	1.00	1	07/27/17	RPV	08/04/17 21:34	RPV

Sample Number: 7074887-05 | Site: Laboratory Control Sample Duplicate | Sample ID:
Collector: | Collect Date: 07/26/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.1	µg/L	EPA 200.8	1.00	1	07/27/17	RPV	08/04/17 21:36	RPV

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 08/08/2017 12:06 pm 7074887
STL_Results Revision #1.6 Effective: 07/09/2014

SUBURBAN TESTING LABS

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

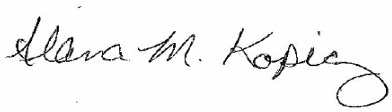
If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager



Report Generated On: 08/08/2017 12:06 pm 7074887
STL_Results Revision #1.6 Effective: 07/09/2014

7074887
Alana Kopicz

SUBURBAN TESTING LABS

Chain of Custody Record

1037F MacArthur Road, Reading, PA 19605 610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

TAT (Check One) **Standard**

Client Name:	**Westchester Environmental LLC.**			Project Name:	Hamburg
Address:	**307 N. Walnut Street**	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	**Paul McCaa**	Email:	mccaapaul@gmail com	City, State	Hamburg, NJ 07419

Comments: Post-Remediation (2)

Rush : First Draw	Sample Description / Site ID	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
First Draw	HHE---Field Blank	07/25/17	08:24 AM	PFM	HHE---Field Blank pH<2	Pb EPA 200.8	1	PW	G	P	H	001
First Draw	HHE-ML-S-Admin Office	07/25/17	08:25 AM	PFM	HHE-ML-S-Admin Office pH<2	Pb EPA 200.8	1	PW	G	P	H	002
First Draw	HHE-LL-S-Meeting Rm	07/25/17	08:27 AM	PFM	HHE-LL-S-Meeting Rm pH<2	Pb EPA 200.8	1	PW	G	P	H	003

pH √ MAW 7/26/17

Relinquished by: Paul McCaa Date: 07/25/17 Time:

Received By: Date: 7/26/17 Temp °C: 18.2 Ice Immersion Time: 0958 Acceptable Y / N

Relinquished by: Date: 7/26/17 Temp °C: 0.6 Time: 1341 Acceptable Y / N

Received in Lab By: Date: 7-26-17 Temp °C: Time: 1345 Acceptable Y / N

Sample Conditions

- Submitted w/ COC? Y / N
- Number of containers match number on COC? Y / N
- All containers intact? Y / N
- Tests within holding times? Y / N
- 40 ml VOA vials free of headspace? Y / N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge,soil, etc. (reported as mg/l)
PW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab
8 HC = 8 Hour Composite
24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution
E = Entry Point
R = Raw
C = Check
S = Special
M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O = Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
N = HNO_3
C = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

- SWDA Reporting Std — PV
- Fax
- X — Email
- Other
- Return a copy of this form with Report

LEAD IN DRINKING WATER
POST REMEDIATION REPORT
HAMBURG, NJ SCHOOL DISTRICT
ROUND THREE

PERFORMED FOR:
HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA 19380

SEPTEMBER 2017

Westchester Environmental, LLC

September 18, 2017

Mr. William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg, NJ 07419

Re: LEAD IN DRINKING WATER POST-REMEDIATION THIRD ROUND REPORT

Dear Mr. Sabo,

Please find enclosed the report for the Lead in Drinking Water Post-Remediation Third Round sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

Paul F. McCaa
Senior Environmental Specialist

307 North Walnut St, West Chester, PA 19380 • (610) 431-7545 • Fax: (610) 431-7543
www.WestchesterEnvironmental.com

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HAMBURG, NJ SCHOOL DISTRICT

1.0 INTRODUCTION……..…….1

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4.0 DISCUSSION & RECOMMENDATIONS……...……..…..……..4

5.0 DISCLAIMER…….5

Appendix I – Water Sampling Chain-of-Custody & Laboratory Reports

1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Bob Zierden to conduct Drinking Water Sampling for Lead at the Hamburg Elementary School following remediation measures undertaken by the district for the Admin Office & Meeting Room sinks.

The water sampling was performed on September 1, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples following remediation activities conducted at those locations in the facility that exceeded the NJDEP action level of 15.5 parts per billion (ppb) during the second round of sampling (flush samples) in order to evaluate the effectiveness of the remediation activities undertaken by the district and have them analyzed for lead levels.

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

Post Remediation, First Draw water samples were collected from those fixtures where lead levels had exceeded the Action Level of 15.5 ppb during the Post-Remediation Sample testing conducted on September 1, 2017 and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Table 1 Hamburg Elementary Post-Remediation (3)

Field ID	Location	Result	Action Level	Lead Hazard
		ppb	ppb	Yes / No
Field Blank	Field Blank	<1.00	15.5	No
HHE-1Fl-WC-Hall o/s Rm 116	Hall o/s Rm 116	<1.00	15.5	No
HHE-1Fl-BF-Hall o/s Rm 116	Hall o/s Rm 116	<1.00	15.5	No

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26 Educational Facilities
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials. For further information on guidance protocols and Action Levels that were followed please refer to:

1. N.J.A.C. 6A:26

2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

Based on laboratory analysis of the samples analyzed, all samples fell below the action limit. The remediation (replacement of the tap fixtures) was successful in lowering in the lead concentration below the action limit at those fixtures.

The type of samples collected for this assessment is referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location and are reflective of the conditions at that time of collection.

It is important to note that the Lead Hazard Assessment was a snap shot of the conditions existing at the time of the assessment and conditions may vary with time.

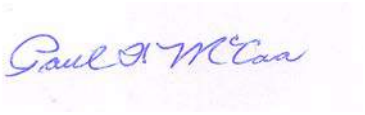
-END OF SECTION-

5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC



Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

APPENDIX I

LEAD IN DRINKING POST-REMEDIATION (2) WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

Results Report

Order ID: 7091500

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7091500-01 | Site: HHE---Field Blank | Sample ID: HHE---Field Blank
Collector: PFM | Collect Date: 09/01/2017 12:16 pm | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	09/06/17	RJS	09/13/17 18:19	ADR

Sample Number: 7091500-02 | Site: HHE-1Fl-WC-Hall o/s Rm 116 | Sample ID: HHE-1Fl-WC-Hall o/s Rm 116
Collector: PFM | Collect Date: 09/01/2017 12:17 pm | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	09/06/17	RJS	09/13/17 18:21	ADR

Sample Number: 7091500-03 | Site: HHE-1Fl-BF-Hall o/s Rm 116 | Sample ID: HHE-1Fl-BF-Hall o/s Rm 116
Collector: PFM | Collect Date: 09/01/2017 12:17 pm | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	09/06/17	RJS	09/13/17 18:23	ADR

Sample Number: 7091500-04 | Site: Laboratory Control Sample | Sample ID:
Collector: | Collect Date: 09/05/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	15.0	µg/L	EPA 200.8	1.00	1	09/06/17	RJS	09/13/17 18:17	ADR

Sample Number: 7091500-05 | Site: Laboratory Control Sample Duplicate | Sample ID:
Collector: | Collect Date: 09/05/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.8	µg/L	EPA 200.8	1.00	1	09/06/17	RJS	09/13/17 18:46	ADR

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 09/14/2017 5:12 pm 7091500
STL_Results Revision #1.6 Effective: 07/09/2014

SUBURBAN TESTING LABS

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

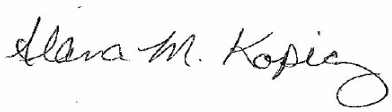
If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager



Report Generated On: 09/14/2017 5:12 pm 7091500
STL_Results Revision #1.6 Effective: 07/09/2014

(3)

SUBURBAN TESTING LABS

1037F MacAr

7091500

Alana Kopicz

(One) ~~Standard~~ 5 business days

Client Name:	Westchester Environmental LLC.			ame:	Hamburg
Address:	307 N. Walnut Street	Phone:		Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments: New Combo Cooler

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
First Draw	HHE---Field Blank	09/01/17	12:16 PM	PFM	HHE---Field Blank	Pb EPA 200.8	1	PW	G	P	None	H001
First Draw	HHE-1FI-WC-Hall o/s Rm 116	09/01/17	12:17 PM	PFM	HHE-1FI-WC-Hall o/s Rm 116	Pb EPA 200.8	1	PW	G	P	None	H002
First Draw	HHE-1FI-BF-Hall o/s Rm 116	09/01/17	12:17 PM	PFM	HHE-1FI-BF-Hall o/s Rm 116	Pb EPA 200.8	1	PW	G	P	None	H003

preserved in lab with 0.5mL concentrated HNO_3 until pH<2 CAA 9/5

Comments – No Preservative, approx. 250 ml. in 500 ml. bottle.

Relinquished by: Paul McCaa Date: 09/05/17 Time:

Received By: (3) Date: 9/5/17 Temp °C: 18.7 Time: 0830 Acceptable Y / N

Relinquished by: Date: 9/5/17 Temp °C: 1.1 Time: 1550 Acceptable Y / N

Received in Lab By: Date: 9/5/17 Temp °C: 1.1 Time: 15:50 Acceptable Y / N

Sample Conditions

Submitted w/ COC	(Y) / N
Number of containers match number on COC ?	(Y) / N
All containers intact	(Y) / N
Tests within holding times	Y / N
40 ml. VOA vials free of headspace ?	Y / N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge,soil, etc. (reported as mg/l)
PW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key	SWDA Sample Type
G = Grab	D = Distribution
8 HC = 8-Hour Composite	E = Entry Point
24 HC = 24 Hour Composite	R = Raw
	C = Check
	S = Special
	M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O = Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
H = HNO_3
C = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

SWDA Reporting SID PW
Fax
X Email
Other
Return a copy of this form with Report

LEAD IN DRINKING WATER
NEW COMBO CHILLER REPORT
HAMBURG, NJ SCHOOL DISTRICT

PERFORMED FOR:
HAMBURG, NJ SCHOOL DISTRICT
30 LINWOOD AVENUE
HAMBURG, NJ 07419

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
1248 WRIGHTS LANE
WEST CHESTER, PA 19380

December 5, 2017

December 5, 2017

Mr William Sabo,
B. A. / Board Secretary
Hamburg, NJ School District
30 Linwood Avenue
Hamburg, NJ 07419

Re: LEAD IN DRINKING WATER NEW COMBO CHILLER REPORT

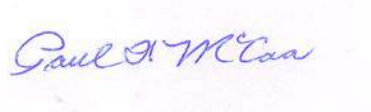
Dear Mr. Sabo,

Please find enclosed the report for the Lead in Drinking Water Post-Remediation New Combo Chiller sampling conducted for the Hamburg School District.

If you have any questions, please contact me at 484-894-4841 or email me at pfmccaa@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC



Paul F. McCaa
Senior Environmental Specialist

TABLE OF CONTENTS

HAMBURG, NJ SCHOOL DISTRICT

1.0 INTRODUCTION……..…….1

2.0 SUMMARY OF FINDINGS……..……..……2

3.0 SAMPLING AND ANALYSES...……..……3

4.0 DISCUSSION & RECOMMENDATIONS……...……..…..……..4

5.0 DISCLAIMER…….5

Appendix I – Water Sampling Chain-of-Custody & Laboratory Reports

1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Bob Zierden to conduct Drinking Water Sampling for Lead at the Hamburg Elementary School following the installation of a new combination chiller in the Hall o/s Room 22A

The water sampling was performed on November 21, 2017, by Paul F. McCaa of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples following remediation activities conducted at those locations in the facility that exceeded the NJDEP action level of 15.5 parts per billion (ppb) during the second round of sampling (flush samples) in order to evaluate the effectiveness of the remediation activities undertaken by the district and have them analyzed for lead levels.

All samples were analyzed by Suburban Testing Labs located at 1037 MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

First Draw water samples were collected from the new combination chiller installed in the facility and submitted for lead analysis. Table 1 below shows the concentration of lead in ppb at each sampled location.

Table 1 Hamburg Elementary New Combo Chiller

Sample Number		Location	Result 11/21/2017 First Draw	Action Level	Over Limit 11/21/2017 First Draw	
			ppb	ppb	Yes/No	
	Field Blank	NA				
	HHE-ML-WC-Hall o/s Rm 22A	Hall o/s Rm 22A	<1.00	15.5	No	
	HHE-ML-BF-Admin Office	Hall o/s Rm 22A	<1.00	15.5	No	

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26 Educational Facilities

2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

3. and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water".

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis for lead in drinking water using EPA Method 200.8.

-END OF SECTION-

4.0 SAMPLING AND ANALYSES

According to the US EPA, lead enters drinking water primarily through plumbing materials.

For further information on guidance protocols and Action Levels that were followed please refer to The EPA's Revised Technical Guidance - "**3Ts for Reduced Lead in Drinking Water in Schools**" and the Guidance Document from NJDEP Division of Water Supply and Geoscience – "**Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water**".

Based on a laboratory analysis or the samples collected from the new combo chiller the following conclusions can be drawn:

1. **First Draw** sample results for the new combination chiller installed by the district were reported by the laboratory to contain <1.00ppb lead, and below the 15.5 ppb Action Level.

The type of samples collected for this assessment are referred to as grab samples. Grab samples are individual discrete samples collected at a specific time and location and are reflective of the conditions at that time of collection. Since conditions may vary over time we recommend periodic sampling to monitor the lead concentrations at the facilities.

It is important to note that the Lead Hazard Assessment was a snap shot of the conditions existing at the time of the assessment and conditions may vary with time.

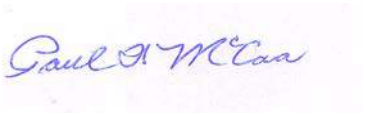
-END OF SECTION-

5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC



Paul F. McCaa
Senior Environmental Specialist

-END OF REPORT-

Westchester Environmental

APPENDIX I

LEAD IN DRINKING POST-REMEDIATION NEW COMBINATION
CHILLER WATER SAMPLING
CHAINS-OF-CUSTODY & LAB REPORTS

SUBURBAN TESTING LABS

Results Report

Order ID: 7113922

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Hamburg, NJ SD - Hamburg Elementary
30 Linwood Avenue
Hamburg, NJ 07419

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7113922-01 | Site: HHE--Blank | Sample ID: HHE--Blank-
Collector: PFM | Collect Date: 11/21/2017 9:15 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/24/17	RPV	12/01/17 20:56	RPV

Sample Number: 7113922-02 | Site: HHE-ML-WC-Hall o/s 22A | Sample ID: HHE-ML-WC-Hall o/s 22A
Collector: PFM | Collect Date: 11/21/2017 9:16 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/24/17	RPV	12/01/17 20:46	RPV

Sample Number: 7113922-03 | Site: HHE-MK-BF-Hall o/s 22 A | Sample ID: HHE-MK-BF-Hall o/s 22A
Collector: PFM | Collect Date: 11/21/2017 9:17 am | Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	11/24/17	RPV	12/01/17 20:58	RPV

Sample Number: 7113922-04 | Site: Labratory Control Sample | Sample ID:
Collector: | Collect Date: 11/24/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.7	µg/L	EPA 200.8	1.00	1	11/24/17	RPV	12/01/17 21:00	RPV

Sample Number: 7113922-05 | Site: Labratory Control Sample Duplicate | Sample ID:
Collector: | Collect Date: 11/24/2017 12:00 am | Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	14.7	µg/L	EPA 200.8	1.00	1	11/24/17	RPV	12/01/17 21:02	RPV

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 12/04/2017 3:33 pm 7113922
STL_Results Revision #1.6 Effective: 07/09/2014

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

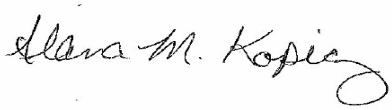
If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:
Alana Kopicz
Project Manager



SUBURBAN TESTING LABS
1037F MacArthur Road, Reading, PA 19605 Phone: 800-433-6595 Fax: 610-375-4090 suburbantestinglabs.com
PADEP 06-00208

7113922
Alana Kopicz

SUBURBAN TESTING LABS

Chain of Custody Record

TAT (Check One) Standard

1037F MacArthur Road, Reading, PA 19605 610-375-TEST – Fax: 610-375-4090 – suburban testinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Hamburg
Address:	1248 Wrightsd Lane	Phone:	484-894-4841	Facility	Hamburg Elementary
	West Chester, PA 19380	Fax:		Address:	30 Linwood Avenue
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	City, State	Hamburg, NJ 07419

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	NJDEP TAG CODE		Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Sample #
First Draw	HHE--Blank-	11/21/17	09:15 AM	PFM	HHE--Blank-	pH<2	Pb EPA 200.8	1	PW	G	P	H	000
First Draw	HHE-ML-WC-Hall o/s 22A	11/21/17	09:16 AM	PFM	HHE-ML-WC-Hall o/s 22A	↓	Pb EPA 200.8	1	PW	G	P	H	001
First Draw	HHE-MK-BF-Hall o/s 22A	11/21/17	09:17 AM	PFM	HHE-MK-BF-Hall o/s 22A		Pb EPA 200.8	1	PW	G	P	H	002

pH ✓ JSE 11-24-17

Relinquished by: Paul McCaa Date: 11/21/17 Time:

Received By: (3) Date: 11/24/17 Temp °C 18.1°C Time: 632 Acceptable Y / N

Relinquished by: (2) Date: 11/24/17 Temp °C: 1.8°C Time: 1512 Acceptable Y / N

Received in Lab By: Date: 11-24-17 Temp °C: Time: 1512 Acceptable Y / N

Sample Conditions

- Submitted w/ COC — Y / N
- Number of containers match number on COC ? — Y / N
- All containers intact — Y / N
- Tests within holding times — Y / N
- 40 ml. VOA vials free of headspace ? — Y / N

Matrix Key

NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered Sludge,soil, etc. (reported as mg/l)
RW = Potable Water (not for SWDA compliance)
SWDA = Safe Drinking Water Act Potable Sample

Sample Type Key

G = Grab
8 HC = 8 Hour Composite
24 HC = 24 Hour Composite

SWDA Sample Type

D = Distribution
E = Entry Point
R = Raw
C = Check
S = Special
M = Maximum Residence

Bottle Type Key

P = Plastic
G = Glass
O= Other

Preservative Key

H = Sodium Thiosulphate
A = Ascorbic Acid
H = HNO_3
C = HCl
S = H_2SO_4
OH = NaOH
O = Other
NA = None Required

Reporting options

- SWDA Reporting SID — PW
- Fax
- X — Email
- Other
- Return a copy of this form with Report

Hamburg School District
30 Linwood Avenue
Hamburg, New Jersey 07419
Ph. 973.827.7570 · Fax 973.827.3624
www.HamburgSchool.com

COPY

Mr. Roger A. Jinks, Jr.
Chief School Administrator

Mr. William J. Sabo
Business Administrator/Board Secretary

Mrs. Kimberly Sigman
Vice Principal

21 March 2017

Dear Hamburg Borough School Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, Hamburg Borough School tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, Hamburg Borough School will implement immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" sign will be posted.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within Hamburg Borough School. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 41 samples taken, all but 10 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlets that tested above the 15 µg/l for lead, the actual lead level, and what temporary remedial action Hamburg Borough School has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
Meeting Room/412 HHE-LL-DW	30.3	Isolated/Disconnected From System
Meeting Room/412 HHE-LL-S	34.6	Isolated/Disconnected From System
Admin Office/422 HHE-ML-DW	42.3	Isolated/Disconnected From System
Admin Office/422 HHE-ML-S	36.3	Isolated/Disconnected From System
Music Room/27 HHE-LL-S	16.4	Isolated/Disconnected From System
Room26 HHE-ML-S	17.2	Isolated/Disconnected From System
Room 24 HHE-ML-S	39.8	Isolated/Disconnected From System

Room 24 HHE-ML-DW-Hall outside room 24	19.8	Isolated/Disconnected From System
Room 108 Kitchen 2 HHE-TL-FP	195	Isolated/Disconnected From System
Room 108 Kitchen 3 HHE-TL-FP	46.3	For handwashing only

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. and are also available on our website at http://www.hamburgschool.com. For more information about water quality in our schools, contact Robert Zierden at the Hamburg Borough School, 973-827-7570 ext 213.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at **www.epa.gov/lead**, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

Roger A. Jinks, Jr.

Mr. Roger A. Jinks, Jr.
Superintendent