



**Westchester
Environmental, LLC**

LEAD IN DRINKING WATER REPORT

**RIVERVIEW ELEMENTARY SCHOOL
VALLEYVIEW MIDDLE SCHOOL
DENVILLE TOWNSHIP K-8 SCHOOL DISTRICT**

PERFORMED FOR:

DENVILLE TOWNSHIP K-8 SCHOOL DISTRICT
400 MORRIS AVENUE, SUITE 279
DENVILLE, NJ 07864

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
307 N WALNUT STREET
WEST CHESTER, PA

August 2016



Westchester Environmental, LLC

September 19, 2016

Mrs. Damaris Gurowsky,
B. A. / Board Secretary
Denville Township K-8 School District
400 Morris Avenue, Suite 279
Denville, NJ 07834

**Re: LEAD IN DRINKING WATER REPORT - RIVERVIEW SCHOOL AND
VALLEYVIEW SCHOOL, DENVILLE, NJ**

Dear Mrs. Gurowsky

Please find enclosed the report for the 3rd follow-up Lead in drinking water sampling conducted for the Denville Township K-8 School District.

If you have any questions, please don't hesitate to 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

RIVERVIEW ELEMENTARY SCHOOL VALLEYVIEW MIDDLE SCHOOL DENVER, NEW JERSEY

1.0	INTRODUCTION.....	1
2.0	SUMMARY OF FINDINGS.....	2
3.0	SAMPLING AND ANALYSES.....	3
4.0	DISCUSSION.....	4
5.0	DISCLAIMER.....	5

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



1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Ms. Damaris Gurowsky to conduct follow-up Drinking Water Sampling for Lead at the Valleyview Elementary & Riverview Elementary Schools in Denville, New Jersey.

The water sampling was performed on August 24, 2016 by Paul F. McCaa, of Westchester Environmental, LLC.

The purpose of the assessment was to collect water samples at predetermined locations in the two facilities and have them analyzed for lead levels. This was the third round of sampling following remediation of locations that exceeded the action levels during the second round of sampling.

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 follow-up water samples were collected and submitted for lead analysis. The tables below show the concentration of lead (parts per billion or milligram per liter) at each sampled location for 4/21/16 (second round of sampling) and 8/24/16 (third round of sampling).

Table1- Riverview School

Sample Number	Location	Result 4/21/16	Result 8/24/16	Action Level	Lead Hazard
		ppb	ppb	ppb	Yes / No
6041562-20	Nurses Office-Fountain	37	ND	<15	No
6041562-25	Opposite R26/H-Way/LHS Fount.	21	ND	<15	No
6041562-28	By R30/Hallway/RHS Fountain	2	ND	<15	No

Table 2 – Valleyview School

Sample Number	Location	Result 4/21/16	Result 8/24/16	Action Level	Lead Hazard
		ppb	ppb	ppb	Yes / No
6041561-19	Lower B-Far End-LHS Fountain	37	ND	<15	No
6041561-21	Lower B-Far End-RHS Fountain	21	ND	<15	No
6041561-22	Lower B-Life Skills-Sink #1	2	ND	<15	No
6041561-23	Lower B-Life Skills-Sink #2	7	ND	<15	No
6041561-24	Lower B-Life Skills-Sink #3	89	ND	<15	No
6041561-25	Lower B-Life Skills-Sink #4	6	ND	<15	No
6041561-26	C Wing-LHS Fountain	99	ND	<15	No
6041561-27	C Wing-RHS Fountain	63	ND	<15	No

All follow-up water samples in Valleyview School and Riverview School had levels reported as Non-Detect for lead.



3.0 SAMPLING AND ANALYSES

First draw samples (water that has been stagnant for a minimum of six hours) were collected from locations pre-determined by district personnel from those locations that exceeded the Action level of 15 ppb in testing conducted on 4/21/2016.

In accordance with the Lead and Copper Rule, 40 CFR Part 141 Subpart 1, district personnel conducted pre-stagnation flushing at all locations from which samples were to be drawn.

Three and eight 250 ml water samples were collected from Riverview and Valleyview Schools respectively.

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

-END OF SECTION-



4.0 DISCUSSION AND CONCLUSION

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 third round of sampling all locations samples were found to be below the Action Level of 15 ppb and the following are recommended:

1. Flush pipes before drinking
2. Only use cold water for consumption
3. Use water filters or treatment devices
4. Periodically sample water for lead

All water samples were below the action level of 15 parts per billion (ppb) or 0.015 milligrams per liter (mg/l).

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

A handwritten signature in blue ink that reads 'Paul F. McCaa'.

Senior Environmental Specialist

-END OF REPORT-

APPENDIX I

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



Results Report

Order ID: 6085144

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Denville NJ SD River View

Attn: Main Email

Regulatory ID:

Sample Number: 6085144-01
Collector: PFM

Site: Hall o/s Rm 26 Fountain
Collect Date: 08/24/2016 8:51 am

Sample ID: RV001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 21:58 RCS

Sample Number: 6085144-02
Collector: PFM

Site: Hall o/s Rm 30 Fountain
Collect Date: 08/24/2016 8:50 am

Sample ID: RV001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:04 RCS

Sample Number: 6085144-03
Collector: PFM

Site: Nurse Office Faucet
Collect Date: 08/24/2016 8:47 am

Sample ID: RV001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:06 RCS

Data Qualifiers:

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.

Report Generated On: 08/31/2016 5:05 pm
STL_Results Revision #1.6

6085144
Effective: 07/09/2014





SUBURBAN TESTING LABS

Reviewed and Released By:

Rachel Luckhart
Project Manager

Report Generated On: 08/31/2016 5:05 pm 6085144
STL_Results Revision #1.6 Effective: 07/09/2014

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



PADEP 06-00208



6085144
Deborah Hannum



1037F MacArthur Road, Reading, PA 19605

andard 24hr 48hr 72hr Other

Client Name:	Westchester Environmental LLC.			Project Name:	Denville NJ SD
Address:	307 N. Walnut Street	Phone:	484-894-4841	Address:	River View
	West Chester, PA 19380	Fax:			
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	Payment / P.O. Info:	

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Districts Field Code #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Location Code
Standing	Hall o/s Rm 26 Fountain	08/24/16	08:51 AM	PFM	RV001	Pb EPA 200.8	1	PW	G	P	H	DW
Standing	Hall o/s Rm 30 Fountain	08/24/16	08:50 AM	PFM	RV002	Pb EPA 200.8	1	PW	G	P	H	DW
Standing	Nurse Office Faucet	08/24/16	08:47 AM	PFM	RV003	Pb EPA 200.8	1	PW	G	P	H	NS

PHK 3
↓

Relinquished by:

[Signature]

Date: 8/25/16

Time:

Received By:

[Signature]

Date: 8/26/16 Temp °C: 28.0

Time: 1558 Acceptable Y/N

Relinquished by:

[Signature]

Date: 8/26/16 Temp °C: 30.2

Time: 1745 Acceptable Y/N

Received in Lab By:

[Signature]
PH DRW 8/26/16

Date: 8/26/16 Temp °C: 30.2

Time: 1745 Acceptable Y/N

Sample Conditions	Matrix Key	Bottle Type Key	Reporting options
Submitted w/ COC <input checked="" type="checkbox"/> Y/N	NPW = Non-Potable Water	P = Plastic G = Glass O = Other	<input type="checkbox"/> SWDA Reporting <input type="checkbox"/> PW SID
Number of containers match number on COC? <input checked="" type="checkbox"/> Y/N	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	Preservative Key H = Sodium Thiosulphate A = Ascorbic Acid H = HNO3 C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	<input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Other
All containers intact <input checked="" type="checkbox"/> Y/N	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	<input type="checkbox"/> Return a copy of this form with Report
Tests within holding times <input checked="" type="checkbox"/> Y/N			
40 ml. VOA vials free of headspace? <input checked="" type="checkbox"/> Y/N			



Results Report

Order ID: 6085146

Westchester Environmental
307 North Walnut Street
West Chester, PA 19380

Project: Denville NJ SD Valley View

Attn: Paul McCaa

Regulatory ID:

Sample Number: 6085146-01
Collector: PFM

Site: Lower B Wing Hall Fountain #1
Collect Date: 08/24/2016 9:10 am

Sample ID: W001
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:07 RCS

Sample Number: 6085146-02
Collector: PFM

Site: Lower B Wing Hall Fountain #2
Collect Date: 08/24/2016 9:10 am

Sample ID: W002
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:09 RCS

Sample Number: 6085146-03
Collector: PFM

Site: Life Skills Rm Faucet #1
Collect Date: 08/24/2016 9:12 am

Sample ID: W003
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:11 RCS

Sample Number: 6085146-04
Collector: PFM

Site: Life Skills Rm Faucet #2
Collect Date: 08/24/2016 9:12 am

Sample ID: W004
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:17 RCS

Sample Number: 6085146-05
Collector: PFM

Site: Life Skills Rm Faucet #3
Collect Date: 08/24/2016 9:13 am

Sample ID: W005
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing < 1 µg/L EPA 200.8 1 1 08/29/16 RCS 08/29/16 22:19 RCS

Report Generated On: 08/31/2016 5:05 pm
STL_Results Revision #1.6

6085146
Effective: 07/09/2014





Sample Number: 6085146-06
Collector: PFM

Site: Life Skills Rm Faucet #4
Collect Date: 08/24/2016 9:14 am

Sample ID: W006
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing	< 1	µg/L	EPA 200.8	1	1	08/29/16	RCS	08/29/16 22:21	RCS
----------------	-----	------	-----------	---	---	----------	-----	----------------	-----

Sample Number: 6085146-07
Collector: PFM

Site: C Wing Hallway Fountain
Collect Date: 08/24/2016 9:17 am

Sample ID: W007
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	------	----	-----------	----	---------------	----

Metals

Lead, Standing	< 1	µg/L	EPA 200.8	1	1	08/29/16	RCS	08/29/16 22:23	RCS
----------------	-----	------	-----------	---	---	----------	-----	----------------	-----

Data Qualifiers:

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.

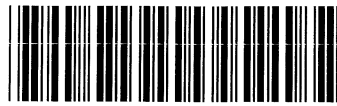
Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Rachel Luckhart
Project Manager

Report Generated On: 08/31/2016 5:05 pm 6085146
STL_Results Revision #1.6 Effective: 07/09/2014





6085146
Deborah Hannum



1037F MacArthur Road, Reading, PA 19605 610-

Standard 24hr 48hr 72hr Other

Client Name:	Westchester Environmental LLC.			Project Name:	Denville NJ SD
Address:	307 N. Walnut Street	Phone:	484-894-4841	Address:	Valley View
	West Chester, PA 19380	Fax:			
Contact Name:	Paul McCaa	Email:	mccaapaul@gmail.com	Payment / P.O. Info:	

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Districts Field Code #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Location Code
Standing	Lower B Wing Hall Fountain #1	08/24/16	09:10 AM	PFM	VV001	Pb EPA 200.8	1	PW	G	P	H	DW <i>PHK-3</i>
Standing	Lower B Wing Hall Fountain #2	08/24/16	09:10 AM	PFM	VV002	Pb EPA 200.8	1	PW	G	P	H	DW
Standing	Life Skills Rm Faucet #1	08/24/16	09:12 AM	PFM	VV003	Pb EPA 200.8	1	PW	G	P	H	EC
Standing	Life Skills Rm Faucet #2	08/24/16	09:12 AM	PFM	VV004	Pb EPA 200.8	1	PW	G	P	H	EC
Standing	Life Skills Rm Faucet #3	08/24/16	09:13 AM	PFM	VV005	Pb EPA 200.8	1	PW	G	P	H	DW
Standing	Life Skills Rm Faucet #4	08/24/16	09:14 AM	PFM	VV006	Pb EPA 200.8	1	PW	G	P	H	DW
Standing	C Wing Hallway Fountain	08/24/16	09:17 AM	PFM	VV007	Pb EPA 200.8	1	PW	G	P	H	DW

Relinquished by: *[Signature]* Date: *8/25/16*
 Received By: *[Signature]* Date: *8/26/16* Temp °C: *28.6*
 Relinquished by: *[Signature]* Date: *8/26/16* Temp °C: *30.2*
 Received in Lab By: *[Signature]* Date: *8-26-15* Temp °C: *30.2*
 Time: *1745* Acceptable *Y/N*

Sample Conditions	Matrix Key	Bottle Type Key	Reporting options
Submitted w/ COC <i>Y/N</i>	NPW = Non-Potable Water	P = Plastic G = Glass O = Other	SWDA Reporting PW SID
Number of containers match number on COC? <i>Y/N</i>	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	Preservative Key H = Sodium Thiosulphate A = Ascorbic Acid H = HNO3 C = HCl S = H ₂ SO ₂ OH = NaOH O = Other NA = None Required	Fax Email <i>[initials]</i> Other
All containers intact <i>Y/N</i>	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	Return a copy of this form with Report
Tests within holding times <i>Y/N</i>			
40 ml. VOA vials free of headspace? <i>Y/N</i>			

PHD RW 8/26/16