



GREAT MEADOWS LEAD IN DRINKING WATER FLUSH DRAW SAMPLING REPORT

PERFORMED FOR:

GREAT MEADOWS SCHOOL DISTRICT
PO BOX 74
GREAT MEADOWS, NJ 07838

PERFORMED BY:

WESTCHESTER ENVIRONMENTAL LLC
1248 WRIGHTS LANE
WEST CHESTER, PA 19380

JANUARY 2022



February 4, 2022

Mr. David White
Great Meadows School District
PO Box 74
Great Meadows, NJ 07838

Re: FLUSH DRAW LEAD IN DRINKING WATER REPORT

Dear Mr. White;

Please find enclosed the report for the Lead in Drinking Water Flush Draw Sampling conducted for the Great Meadows School District.

If you have any questions, please don't hesitate to contact me at 610-431-7545 or email me at nabraham@WestChesterEnvironmental.com.

Sincerely,

Westchester Environmental, LLC

A handwritten signature in dark ink, appearing to read 'Noel Abraham', followed by a horizontal line.

Noel Abraham
Environmental Specialist



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GREAT MEADOWS SCHOOL DISTRICT

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



1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by the Great Meadows School District to White to conduct Flush Draw Drinking Water Sampling at the following Great Meadows School District facilities:

1. Central Elementary School

The purpose of the follow up flush sampling event was to collect flush draw water samples at those fixtures in the facilities where the initial first draw samples were reported to contain lead above the NJDEP action level of 15.5 parts per billion (ppb).

The water sampling was performed on December 27, 2021 by Noel Abraham of Westchester Environmental, LLC.

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

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

Tables 1 compares the results of the flush sample to its corresponding first draw sample and also compares the FLUSH samples against the lead action limit. Those samples that exceeded the lead action limit are yellow highlighted in these tables.

Table 1: Central Elementary School

Location Code	First Draw Result (ppb)	Flush Draw Result (ppb)	Action Level (ppb)
1 GMCS-1FL-FP-KITCHEN-2	33.7	<1.00	15.5
2 GMCS-1FL-S-ROOM 113	88.1	<1.00	15.5
3 GMCS-1FL-S-ROOM 112	35.4	1.59	15.5

-END OF SECTION-

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. 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"

Three (3) flush draw samples were collected and analyzed at the location where a first draw sample was reported to contain lead above the action level of 15.5 parts per billion (ppb).

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"

Based on laboratory analysis of the samples analyzed, the three (3) flush samples fell below the action limit.

Continue to discontinue use of any sample locations that exceeded the lead action limit either first draw or flush samples.

Refer to EPA's "for Reducing Lead in Drinking Water in Schools and Child Care Facilities" for other short term and long term suggested remediation measures and notification procedures. Refer to New Jersey Department of Education's reporting requirements. Sample locations that are remediated with intent to be put back in service should be re-tested after remediation to assure acceptable lead levels have been attained.

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

A handwritten signature in black ink, appearing to read 'Noel Abraham', followed by a horizontal line.

Noel Abraham
Environmental Specialist

-END OF REPORT-

APPENDIX I

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



SUBURBAN TESTING LABS

Results Report

Order ID: 2A02174

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Great Meadows SD - Central School
281 Route 46
Great Meadows, NJ 07838

Attn: Noel Abraham

Regulatory ID:

Sample Number: 2A02174-01
Collector: NPA

Site: GMCS-1FL-FP-KITCHEN-2
Collect Date: 12/27/2021 9:01 am

Sample ID: KITCHEN-2
Sample Type:

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

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/06/22	JED	01/13/22 16:36	MKR
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Sample Number: 2A02174-02
Collector: NPA

Site: GMCS-1FL-S-ROOM 113
Collect Date: 12/27/2021 9:03 am

Sample ID: ROOM 113
Sample Type:

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

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/06/22	JED	01/13/22 13:37	MKR
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Sample Number: 2A02174-03
Collector: NPA

Site: GMCS-1FL-S-ROOM 112
Collect Date: 12/27/2021 9:04 am

Sample ID: ROOM 112
Sample Type:

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

Lead	1.59	µg/L	EPA 200.8	1.00	1	01/06/22	JED	01/13/22 16:37	MKR
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Sample Receipt Conditions:

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

The test *pH_i Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH_i Final* for ASTM leachate is performed by method SM 4500-H-B.

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: 01/14/2022 4:34 pm
STL_Results Revision #1.9

2A02174
Effective: 04/16/2020

SUBURBAN TESTING LABS

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



PA DEP # 06-00208
NJDEP# PA091



SUBURBAN
TESTING LABS

Reviewed and Released By:

Lisa F. Care
Project Manager II

Report Generated On: 01/14/2022 4:34 pm 2A02174
STL_Results Revision #1.9 Effective: 04/16/2020

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

SUBURBAN TESTING LABS



PA DEP # 06-00208
NJDEP# PA081

Page 2 of 3



**GREAT MEADOWS SCHOOL DISTRICT
LEAD IN DRINKING WATER
POST REMEDIATION SAMPLING REPORT**

PERFORMED FOR:

**GREAT MEADOWS SCHOOL DISTRICT
PO BOX 74
GREAT MEADOWS, NJ 07838**

PERFORMED BY:

**WESTCHESTER ENVIRONMENTAL LLC
1248 WRIGHTS LANE
WEST CHESTER, PA 19380**

MAY 2022



May 13, 2022

Mr. David White
Great Meadows School District
PO Box 74
Great Meadows, NJ 07838

Re: LEAD IN DRINKING WATER REPORT- POST REMEDIATION SAMPLING

Dear Mr. White;

Please find enclosed the report for the Lead in Drinking Water- Post Remediation Sampling conducted for Great Meadows School District.

If you have any questions, please contact me at 610-431-7545 or email me at nabraham@westchesterenvironmental.com.

Sincerely,

Westchester Environmental, LLC

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Noel Abraham
Environmental Specialist

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



1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Mr. David White to conduct Drinking Water Sampling at the following Great Meadows School District facilities:

1. Central Elementary School

The purpose of the post remediation sampling was to collect and analyze first draw water samples at locations that previously exceeded the lead action limit after remediation had been completed by the district. The objective of the testing was to assure that the remediation was successful.

The water sampling was performed on April 8, 2022 by Noel Abraham of Westchester Environmental, LLC.

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 samples were collected and submitted for lead analysis. Table 1 below shows the concentration of lead (parts per billion or microgram per liter) at each location sampled.

Table 1: Central Elementary

	Location Code	Result (ppb)	Action Level (ppb)	Lead Hazard (Yes/No)
1	GMCS-1FL-FP-KITCHEN-2	<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
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. 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".

One (1) first draw sample was collected and analyzed after remediation at the location where the first draw or flush draw samples was reported to contain lead above the action level of 15.5 parts per billion (ppb).

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"
3. 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 first draw sample, the remediation was successful in lowering in the lead concentration below the action limit for one (1) location in Central Elementary.

-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

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Noel Abraham
Environmental Specialist

-END OF REPORT-

APPENDIX I

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



SUBURBAN TESTING LABS

Results Report

Order ID: 2D04119

Westchester Environmental
1248 Wrights Lane
West Chester, PA 19380

Project: Great Meadows SD-Central School
281 Route 46
Great Meadows, NJ 07838

Attn: Noel Abraham

Regulatory ID:

Sample Number: 2D04119-01
Collector: NPA

Site: GMCS-1FL-FP-Kitchen-2
Collect Date: 04/08/2022 9:01 am

Sample ID: KITCHEN-2
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
<u>Metals</u>									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	04/25/22	RPV	04/25/22 14:14	MKR

Sample Receipt Conditions:

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

Units P/A = Present/Absent
Units P/F = Pass/Fail

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-B.

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:

Lisa F. Care
Project Manager II

Report Generated On: 04/26/2022 2:26 pm
STL_Results Revision #1.9

2D04119
Effective: 04/16/2020

SUBURBAN TESTING LABS



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

PA DEP # 06-00208
NJDEP # PA081



COC Pg 1

SUBURBAN
TESTING LABS

Chain of Custody Record

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

TAT (Check

12/11/11	12/17/11	01/04/12
12/11/11	12/17/11	01/04/12

Client Name:	Westchester Environmental LLC.			Project Name:	Great Meadows SD
Address:	1248 Wrights Lane	Phone:	610-431-7545	Address:	Central School
	West Chester, PA 19380				281 Route 46, Great Meadows, NJ 07838
Contact Name:	Noel Abraham	Email:	nabraham@westchesterenviromental.com		
				Payment / P.O. Info:	

Comments:

[illegible]

Relinquished by:

Date: 4/13/22
Time: 17:00

Received By:

Date: 4/14/12 Temp °C: 22.6°C
Time: 10:30 Acceptable 0/N

Relinquished by:

Date: 4/11/22 Temp °C: 24.1
Time: 1:50 Acceptable: 2.1 N

Received in Lab By:

Date: _____ Temp °C: _____
Time: _____ Acceptable Y / N _____

[illegible]