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LEAD IN DRINKING WATER REPORT

Performed At:

Woodland School,
Brookside School,
Monroe Middle School,
New High School,
Monroe Township, New Jersey 08831

Performed For:

Monroe Township Board of Education
Jerry Tague
423 Buckelew Avenue
Monroe Township, New Jersey 08831

Prepared By:

LEW Corporation
1090 Bristol Road
Mountainside, NJ 07092

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Inspection Date: 8/31/2017

Project Number: 170866

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Contact Information

Agency

Client Contact:	Jerry Tague
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Risk Assessor(s)

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Laboratory

Organization:	Environmental Hazard Services, LLC
Street:	7469 Whitepine Road
City, State & Zip:	Richmond, VA 23237
NJDEP Certification #	VA008
Phone Number:	800-347-4010

Introduction

LEW Corporation was contracted by Monroe Township Board of Education to test for the presence of lead in drinking water in four schools in the district.

Sampling Methodology

LEW Corporation followed the July 13, 2016 amendments to NJAC 6A:26. Full details on sampling practices can be found in Districts Sampling Plan.

All samples were collected in 250mL wide mouth plastic containers that was prepackaged by the analytical laboratory. The sample containers may contain nitric acid, if expedited analysis is required. If not, nitric acid will be added to each sample upon arrival at the laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours. If second draw samples were collected, they were collecting following a flushing protocol outlined in the District's Sampling Plan.

Drinking Water Results

On August 31, 2017, LEW Corporation collected the following number of water samples:

Woodland School

- 2 clearance samples collected + 1 quality control sample
- 1 first draw sample collected
- 0 samples above the 15ppb action level

Middle School

- 4 clearance samples collected and
- 0 samples above the 15ppb action level

Brookside School

- 1 clearance sample collected
- 0 samples above the 15ppb action level

New High School

- 1 clearance sample collected
- 0 samples above the 15ppb action level

The complete list of samples that exceeded the 15ppb limit can be found in Appendix A. The complete list of all sample results can be found in Appendix C. The laboratory results can be found in Appendix E.

Certain outlets could not or were not tested due to various reasons. The following table lists those locations and the reason why samples were not collected.

School	Sample Location	Reason for not testing.
Woodland Elementary	Hall By 115 – BB	Plumbing disconnected by maintenance worker. (Not functional)

Recommendations

For those outlets where the first draw sample exceeds 15ppb and the second draw sample does not exceed 15ppb, the outlet is contributing lead to the drinking water and very little lead is being picked up upstream of the outlet in the building plumbing. LEW Corporation recommends immediately stopping use of these outlets. LEW Corporation then recommends replacing the outlet and associated plumbing up to the wall connection.

For those outlets where the first draw sample exceeds 15ppb and the second draw sample exceeds 15ppb or more, the outlet and the building plumbing are contributing lead to the drinking water. LEW Corporation recommends immediately stopping use of these outlets. LEW Corporation then recommends replacing the outlet and associated plumbing up to the wall

connection, and installing a lead filter at the wall connection. A filter maintenance plan will need to be implemented, in order to ensure that all filters are in proper working order.

A complete list of recommendations per outlet can be found in Appendix B.

Additional Recommendations

- 1) Follow-up samples should be collected after any remediation efforts in order to determine the efficacy of the work.
- 2) Any of the inoperable/non-functioning outlets listed above that are brought back into service should be sample.
- 3) Comply with all requirements set forth in NJAC 6A:26.

Appendix A Exceedances

Building	Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ug/L) Or ppb
1 st Draw/Clearance Samples					
NONE					

Appendix B Recommendations

Building	Sample ID	Sample Description	Remediation Recommendation
NONE			

Appendix C All Results

Building	Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ug/L) Or ppb
Multiple School, Monroe Township, NJ 08831					
Woodland Elementary					
Woodland School	08/31/2017	9/11/2017	WE-DW-144	BY ROOM 144 DW	<1.00
Woodland School	08/31/2017	9/11/2017	WE-DW-4TH GRADE	BY END OF 4TH GRADE HALLWAY	<1.00
Woodland School	08/31/2017	9/11/2017	WE-DW-131	BY ROOM 131 DW	1.54
Middle School					
Middle School	08/31/2017	9/11/2017	MS-H-1FL-146-2	ROOM 146 HOSE	1.51
Middle School	08/31/2017	9/11/2017	MS-DW-1FL-108	ROOM 108 DW	<1.00
Middle School	08/31/2017	9/11/2017	MS-DW-2FL-213	BY ROOM 213 DOW	<1.00
Middle School	08/31/2017	9/11/2017	MS-DW-1FL-112	BY ROOM 112 DW	<1.00
Brookside School					
Brookside School	08/31/2017	9/11/2017	370-19	ROOM 16 BB	1.43
New High School					
New High School	08/31/2017	9/11/2017	200-106	ROOM G317 S	1.30
New High School	08/31/2017	9/11/2017	200-200	STADIUM S (Quality Control)	<1.00



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Performed At:

Woodland School & Middle School
Monroe Township Board of Education
423 Buckelew Avenue
Monroe Township, New Jersey 08831

Performed For:

Monroe Township Board of Education
Jerry Tague
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Monroe Township, New Jersey 08831

Prepared By:

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Inspection Date: 7/31/2017
Project Number: 170765

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Contact Information

Agency

Client Contact:	Jerry Tague
Client Name:	Monroe Township Board of Education
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Risk Assessor(s)

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Laboratory

Organization:	Environmental Hazard Services, LLC
Street:	7469 Whitepine Road
City, State & Zip:	Richmond, VA 23237
NJDEP Certification #	VA008
Phone Number:	800-347-4010

Introduction

LEW Corporation was contracted by Monroe Township Board of Education to test for the presence of lead in drinking water in two schools in the district.

Sampling Methodology

LEW Corporation followed the July 13, 2016 amendments to NJAC 6A:26. Full details on sampling practices can be found in Districts Sampling Plan.

All samples were collected in 250mL wide mouth plastic containers that was prepackaged by the analytical laboratory. The sample containers may contain nitric acid, if expedited analysis is required. If not, nitric acid will be added to each sample upon arrival at the laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours. If second draw samples were collected, they were collecting following a flushing protocol outlined in the District's Sampling Plan.

Drinking Water Results

On **July 28, 2017** and **July 31, 2017**, LEW Corporation collected the following number of water samples:

Middle School

- 3 first draw samples and 1 quality control sample
- 2 first draw samples after remediation
- 1 sample above the 15ppb action level

Woodland School

- 3 first draw samples after remediation
- 0 samples above the 15ppb action level

The complete list of samples that exceeded the 15ppb limit can be found in Appendix A. The complete list of all sample results can be found in Appendix C. The laboratory results can be found in Appendix E.

One sample above the established threshold action level was found for in the (middle school) due to the following possible reasons:

School	Sample Location	Possible Reasons
Middle School	ROOM 146 HOSE	Possible contamination from other source, improper installation of filter, Possible contamination because of flushing procedure. Possible contamination due to remaining lead reservoir after filter installation, Damaged filter wrong filter been used, or contaminated new outlet.

Recommendations

Discontinue use of water source and re-test outlet.

A complete list of recommendations per outlet can be found in Appendix B.

Additional Recommendations

- 1) Follow-up samples should be collected after any remediation efforts in order to determine the efficacy of the work.
- 2) Any of the inoperable/non-functioning outlets listed above that are brought back into service should be sample.
- 3) Comply with all requirements set forth in NJAC 6A:26.

Appendix A Exceedances

Building	Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ug/L) Or ppb
1 st Draw/Clearance Samples					
Middle School					
Middle School	7/31/2017	8/07/2017	21-MTMS - HOSE	ROOM 146 HOSE	15.8

Appendix B Recommendations

Building	Sample ID	Sample Description	Remediation Recommendation
Middle School			
Middle School	21-MTMS - HOSE	ROOM 146 HOSE	Immediately discontinue the use of the outlet. Flush the outlet and let the water sit for at least 8 hours. Retest the outlet.

Appendix C All Results

Building	Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ug/L) Or ppb
1692 Perrinneville Road/42 Harrison Avenue, Monroe Township, NJ 08831					
Middle School	07/28/2017	08/07/2017	15-MTMS-BB	132 BB HALL	<1.00
Middle School	07/28/2017	08/07/2017	38-MTMS-BB	244 BB HALL	2.45
Middle School	07/28/2017	08/07/2017	43-MTMS-BB	241 BB HALL	3.92
Middle School	07/31/2017	08/07/2017	21-MTMS-HOSE	ROOM 146 HOSE	15.8
Middle School	07/31/2017	08/07/2017	32-MTMS-S	RM 141 SINK	6.16
Woodland School	07/31/2017	08/07/2017	1-MTWS-BB	ROOM 114 BB	2.46
Woodland School	07/31/2017	08/07/2017	8-MTWS-S	ROOM 114 SINK	2.34
Woodland School	07/31/2017	08/07/2017	17-MTWS-BB	ROOM 149 BB	1.87
Woodland School	07/31/2017	08/07/2017	101-MTWS-S	KITCHEN SINK (Quality Control)	<1.00



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Monroe Township School District
New Jersey 08831

Performed For:

Monroe Township Board of Education
423 Buckelew Avenue
Monroe Township, New Jersey 08831

Prepared By:

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Inspection Date: 6/27/2017
Project Number: 170635

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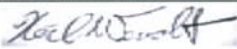
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Contact Information

Agency

Client Contact:	Jerry Tague
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Risk Assessor(s)

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Organization:	Environmental Hazard Services, LLC
Street:	7469 Whitepine Road
City, State & Zip:	Richmond, VA 23237
NJDEP Certification #	VA008
Phone Number:	800-347-4010

Introduction

LEW Corporation was contracted by Monroe Township Board of Education to test for the presence of lead in drinking water in ten schools in the district.

Sampling Methodology

LEW Corporation followed the July 13, 2016 amendments to NJAC 6A:26. Full details on sampling practices can be found in Districts Sampling Plan.

All samples were collected in 250mL wide mouth plastic containers that was prepackaged by the analytical laboratory. The sample containers may contain nitric acid, if expedited analysis is required. If not, nitric acid will be added to each sample upon arrival at the laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours. If second draw samples were collected, they were collecting following a flushing protocol outlined in the District's Sampling Plan.

Drinking Water Results

On April 29-30, 2017 and May 6, 7 & 13, 2017, LEW Corporation collected the following number of water samples:

Woodland School

- 28 first draw samples collected
- 5 samples above the 15ppb action level

Mill Lake School

- 51 first draw samples
- 0 samples above the 15ppb action level

Mill Lake Auxiliary

- 6 first draw samples
- 0 samples above the 15ppb action level

Board of Education

- 3 first draw samples
- 0 samples above the 15ppb action level

Transportation

- 3 first draw samples
- 0 samples above the 15ppb action level

Applegarth School

- 21 first draw samples
- 0 samples above the 15ppb action level

Brookside School

- 41 first draw samples
- 1 samples above the 15ppb action level

Oak Tree

- 50 first draw samples
- 0 samples above the 15ppb action level

Barclay Brook

- 28 first draw samples
- 2 samples above the 15ppb action level

New High School

- 116 first draw samples
- 1 samples above the 15ppb action level

Middle School

- 46 first draw samples
- 2 samples above the 15ppb action level

Field House

- 7 first draw samples
- 0 samples above the 15ppb action level

On June 27 2017, LEW Corporation returned to collect the following number of samples:

Oak Tree School

- 2 first draw samples
- 0 samples above the 15ppb action level

Monroe Twp High School

- 1 second draw samples
- 0 samples above the 15ppb action level

Brookside School

- 1 second draw samples
- 0 samples above the 15ppb action level

The complete list of samples that exceeded the 15ppb limit can be found in Appendix A. The complete list of all sample results can be found in Appendix C. The laboratory results can be found in Appendix E.

Certain outlets could not or were not tested due to various reasons. The following table lists those locations and the reason why samples were not collected.

School	Sample Location	Reason for not testing.
Woodland School	Hallway By 115 -BB	Outlet out of commission.
Woodland School	Nurse Exam Rm -WC	Outlet out of commission.
Woodland School	Nurse Office -IM	Outlet out of commission.
Mil Lake School	Room 414 -S	The sink is a slop sink -non-drinking outlet.
Applegarth School	Hallway By 8 -BB	The bubbler is nonfunctional.
Middle School	Hallway By 132 -BB	The bubbler is nonfunctional.
Middle School	Hallway by 244 -BB	The bubbler is nonfunctional.
Middle School	Hallway By 241 -BB	The bubbler is nonfunctional.

Recommendations

Those outlets where the first draw sample tested below 15ppb are not considered to be elevated and no mitigation is necessary.

For those outlets where the first draw sample exceeds 15ppb and the second draw sample is close to 5ppb, the outlet is contributing lead to the drinking water and very little lead is being picked up upstream of the outlet in the building plumbing. LEW Corporation recommends immediately stopping use of these outlets. LEW Corporation then recommends replacing the outlet and associated plumbing up to the wall connection.

For those outlets where the first draw sample exceeds 15ppb and the second draw sample is close to 10ppb or more, the outlet and the building plumbing are contributing lead to the drinking water. LEW Corporation recommends immediately stopping use of these outlets. LEW Corporation then recommends replacing the outlet and associated plumbing up to the wall connection, and installing a lead filter at the wall connection. A filter maintenance plan will need to be implemented, in order to ensure that all filters are in proper working order.

A complete list of recommendations per outlet can be found in Appendix B.

Additional Recommendations

- 1) Follow-up samples should be collected after any remediation efforts in order to determine the efficacy of the work.
- 2) Any of the inoperable/non-functioning outlets listed above that are brought back into service should be sample.
- 3) Comply with all requirements set forth in NJAC 6A:26.