



LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Andrew Gamper
Waldwick Board of Education
155 Summit Avenue
Waldwick, NJ 07463

SITE INVESTIGATED: Crescent School
165 Crescent Avenue
Waldwick, NJ 07463

ASSESSMENT BY: Kyle Brown
Omega Environmental Services, Inc.
280 Huyler Street
South Hackensack, NJ 07606

INVESTIGATION
CONDUCTED: 4/25/17

DATE OF REPORT: 5/16/17

(Omega Project # 17-27015C)

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EXECUTIVE SUMMARY:

The Waldwick Board of Education requested lead in water testing of potable water outlets at Crescent School, 165 Crescent Avenue, Waldwick, NJ 07463.

Previous Testing

No information related to previous testing was available.

Recent Testing (4/25/17)

In order to assess the building water outlets a full testing of all potable outlets was performed on April 25, 2017.

Reportedly the outlets were not flushed or used on the day of testing.

First draw samples were collected of 24 water fountains and sinks.

All results were below the Lead and Copper action level of 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Sample #	Location	1 st draw (FD)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	Faculty Room	FD	7.54	15
2	Water Fountain at 102 Left	FD	2.81	15
3	Water Fountain at 102 Right	FD	2.86	15
4	In 101	FD	3.81	15
5	In 102	FD	ND	15
6	In 103	FD	3.67	15
7	In 104	FD	1.80	15
8	In 105	FD	2.70	15
9	In 106	FD	2.14	15
10	In 107	FD	2.93	15
11	In 109	FD	2.62	15
12	In 108	FD	Not Sampled	15
13	Water Fountain at Custodian Office	FD	6.11	15
14	Nurse Office	FD	2.56	15
15	In 204	FD	4.19	15
16	In 203	FD	1.80	15
17	In 206	FD	5.18	15
18	In 205	FD	2.30	15
19	In 208	FD	1.53	15
20	In 207	FD	1.48	15
21	In 210	FD	1.88	15
22	In 209	FD	1.71	15
23	In 212	FD	2.20	15
24	In 211	FD	2.51	15

⁽¹⁾ EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.

FD – First Draw Sample

FL – Flush Sample (30 sec)

ND – Indicates that the analyte was not detected at the reporting limit

2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO₃) as a preservative.

The samples were packaged in a cooler and shipped to EMSL Analytical, Inc, Cinnaminson, NJ for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

All lead in water results were below the EPA Lead and Copper action level of 15 ppb. No analysis was performed for copper in water.

4 RECOMMENDATIONS:

Short term:

- No further action is recommended in regards to outlet testing.

Long Term:

- Repeat full building testing on an annual basis. Generally this should be performed in August prior to the start of the school season.
- Develop a Lead in Water Management Plan in accordance with the 2006 EPA 3Ts for Reducing Lead in Drinking Water in Schools.

A. Lead in Water Laboratory Reports



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Michael Levay
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

5/11/2017

Phone: (201) 489-8700
Fax: (201) 489-8797

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/28/2017. The results are tabulated on the attached data pages for the following client designated project:

17-27015C

The reference number for these samples is EMSL Order #011703337. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 011703337

CustomerID: OMEG50

CustomerPO:

ProjectID:

Attn: **Michael Levay**
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/28/17 8:30 AM

Project: 17-27015C

Analytical Results

Client Sample Description 1 Faculty Rm FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	7.54	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 2 @ 102 L FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.81	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 3 @ 102 R FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.86	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 4 In 101 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	3.81	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 5 In 102 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	ND	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 6 In 103 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	3.67	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 7 In 104 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	1.80	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 8 In 105 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0008

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

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 Fax: (201) 489-8797
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Project: 17-27015C

Analytical Results

Client Sample Description 8 In 105 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0008

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.70	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 9 In 106 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0009

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.14	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 10 In 107 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0010

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.93	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 11 In 109 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0011

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.62	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 13 @ CST Off. FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0012

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	6.11	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 14 Nurse Off. FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0013

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.56	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 15 In 204 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0014

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	4.19	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 16 In 203 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0015

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst

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Phone: (201) 489-8700
 Fax: (201) 489-8797
 Received: 04/28/17 8:30 AM

Project: 17-27015C

Analytical Results

<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
16 In 203 FD		4/25/2017	011703337-0015				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.80	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
17 In 206 FD		4/25/2017	011703337-0016				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	5.18	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
18 In 205 FD		4/25/2017	011703337-0017				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	2.30	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
19 In 208 FD		4/25/2017	011703337-0018				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.53	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
20 In 207 FD		4/25/2017	011703337-0019				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.48	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
21 In 210 FD		4/25/2017	011703337-0020				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.88	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
22 In 209 FD		4/25/2017	011703337-0021				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.71	1.00 µg/L	5/5/2017	EG	5/5/2017	EG
<i>Client Sample Description</i>		<i>Collected:</i>	<i>Lab ID:</i>				
23 In 212 FD		4/25/2017	011703337-0022				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
200.8	Lead	1.71	1.00 µg/L	5/5/2017	EG	5/5/2017	EG

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South Hackensack, NJ 07606

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 Received: 04/28/17 8:30 AM

Project: 17-27015C

Analytical Results

Client Sample Description 23 In 212 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0022

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.20	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Client Sample Description 24 In 211 FD **Collected:** 4/25/2017 **Lab ID:** 011703337-0023

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
200.8	Lead	2.51	1.00	µg/L	5/5/2017	EG	5/5/2017	EG

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

**Environmental Chemistry
Chain of Custody**

EMSL Order Number (Lab Use Only):
011703337



EMSL ANALYTICAL, INC.

Report To Contact Name: Michael Levey
Company Name: Omega Environmental
Street: 280 Huyler Street
City: S. Hackensack
State: NJ
Zip: 07606
Phone: 201.489.8700
Fax: 201.342.5412
Project Name: 17-27015C
Bill To Company: Omega Environmental
Attention To: Accts Payable
Street: 280 Huyler Street
City/State/Zip: S. Hackensack, NJ 07606
Phone: 201.489.8700
Fax: 201.342.5412
Email Results To: lab@omega-env.com
US State Samples Collected: NJ
Sampler Signature: *Michael Levey*
 1 Week 2 Days 3 Days 4 Days 5 Days

Number of Samples in Shipment: 23
Standard Turnaround Time: 2 Weeks 3 Weeks
 Following TATs are subject to Lab Approval:
 Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Date/Time	Matrix				Preserv.	List Test(s) Needed	Comments
				W=Water	S=Soil	A=Air	O=Other			
1 Faculty Rm FD		X	4/25 5:20	DW				2		
2 @ 102 L FD		X		DW				2		
3 @ 102 R FD		X		DW				2		
4 In 101 FD		X		DW				2		
5 In 102 FD		X		DW				2		
6 In 103 FD		X		DW				2		
7 In 104 FD		X		DW				2		
8 In 105 FD		X		DW				2		
9 In 106 FD		X		DW				2		
10 In 107 FD		X		DW				2		
11 In 109 FD		X		DW				2		
12 In 108 FD		X		DW				2		Out of order
13 @ CST Off. FD		X		DW				2		
14 Nurse Off. FD		X		DW				2		
15 In 204 FD		X		DW				2		
16 In 203 FD		X		DW				2		
17 In 206 FD		X		DW				2		
18 In 205 FD		X		DW				2		

Released By (Signature): *Michael Levey* **Date & Time:** 4/25/17 8:00
Received By: *AM COURIER* **Date & Time:** 4/27/17 7:10 pm
 Please indicate reporting requirements: Results only Results and QC Reduced Deliverables Other
 Instructions or Comments: *2009 sample 22.1 4/28/17 08.20*

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

Environmental Chemistry
Chain of Custody
EMSL Order Number (Lab Use Only):
011703337



Report To Contact Name: Michael Levey
Company Name: Omega Environmental
Street: 280 Huyler Street
City: S. Hackensack
State: NJ
Zip: 07606
Phone: 201.489.8700
Fax: 201.342.5412

Bill To Company: Omega Environmental
Attention To: Accts Payable
Street: 280 Huyler Street
City/State/Zip: S. Hackensack, NJ 07606
Phone: 201.489.8700
Fax: 201.342.5412

Project Name: 17-27015C
Email Results To: lab@omega-env.com
US State Samples Collected: NJ

Number of Samples in Shipment: 1/0/1900
Date of Shipment: 1/0/1900
Sampler Signature: *[Signature]*

Standard Turnaround Time: 2 Weeks 1 Week 4 Days 3 Days 2 Days 1 Day

Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Date/Time	Matrix				Preserv.	List Test(s) Needed	Comments
				W=Water	S=Soil	A=Air	O=Other			
19 In 208	FD	X	4/25/17	DW				2	X	
20 In 207	FD	X		DW				2	X	
21 In 210	FD	X		DW				2	X	
22 In 209	FD	X		DW				2	X	
23 In 212	FD	X		DW				2	X	
24 In 211	FD	X		DW				2	X	
25-0	FD	X		DW				2	X	
26-0	FD	X		DW				2	X	
27-0	FD	X		DW				2	X	
28-0	FD	X		DW				2	X	
29-0	FD	X		DW				2	X	
30-0	FD	X		DW				2	X	
31-0	FD	X		DW				2	X	
32-0	FD	X		DW				2	X	
33-0	FD	X		DW				2	X	
34-0	FD	X		DW				2	X	
35-0	FD	X		DW				2	X	
36-0	FD	X		DW				2	X	

Released By (Signature): *[Signature]*
Date & Time: 4/25/17 8:00

Received By: _____
Date & Time: _____

Please indicate reporting requirements: Results only Results and QC Reduced Deliverables Disk Deliverables Other _____

Instructions or Comments:

18
19
20
21
22
23