



LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Kenneth Stromsland
Board of Education Township of Edison
312 Pierson Avenue
Edison, NJ 07642

SITE INVESTIGATED: EELC (Edison Early Learning Center)
10 Boulevard of the Eagles
Edison, NJ 08817

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

**INVESTIGATION
CONDUCTED:** 8/17/16

DATE OF REPORT: 9/7/16

(Omega Project # 16-27002Q)

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EXECUTIVE SUMMARY:

The Board of Education Township of Edison requested lead in water testing of potable water outlets at EELC (Edison Early Learning Center), 10 Boulevard of the Eagles, Edison, NJ 08817.

Previous Testing

No information related to previous testing was available.

Recent Testing (8/17/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on August 17, 2016.

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

First draw and flush samples (30 second) were collected of 5 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:

Outlet #	Sample #	Location	1 st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
02	1	Water Fountain next to Office (R)	FD	<1.0	15
02	2	Water Fountain next to Office (R)	FL	<1.0	15
13	3	Water Fountain Room 7	FD	3.1	15
13	4	Water Fountain Room 7	FL	<1.0	15
16	5	Water Fountain Room 6	FD	2.4	15
16	6	Water Fountain Room 6	FL	<1.0	15
18	7	Water Fountain Room 5	FD	2.1	15
18	8	Water Fountain Room 5	FL	<1.0	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)

NA – Not Analyzed

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.

Flush Samples – After collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to Pace Analytical, Melville, NY 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:

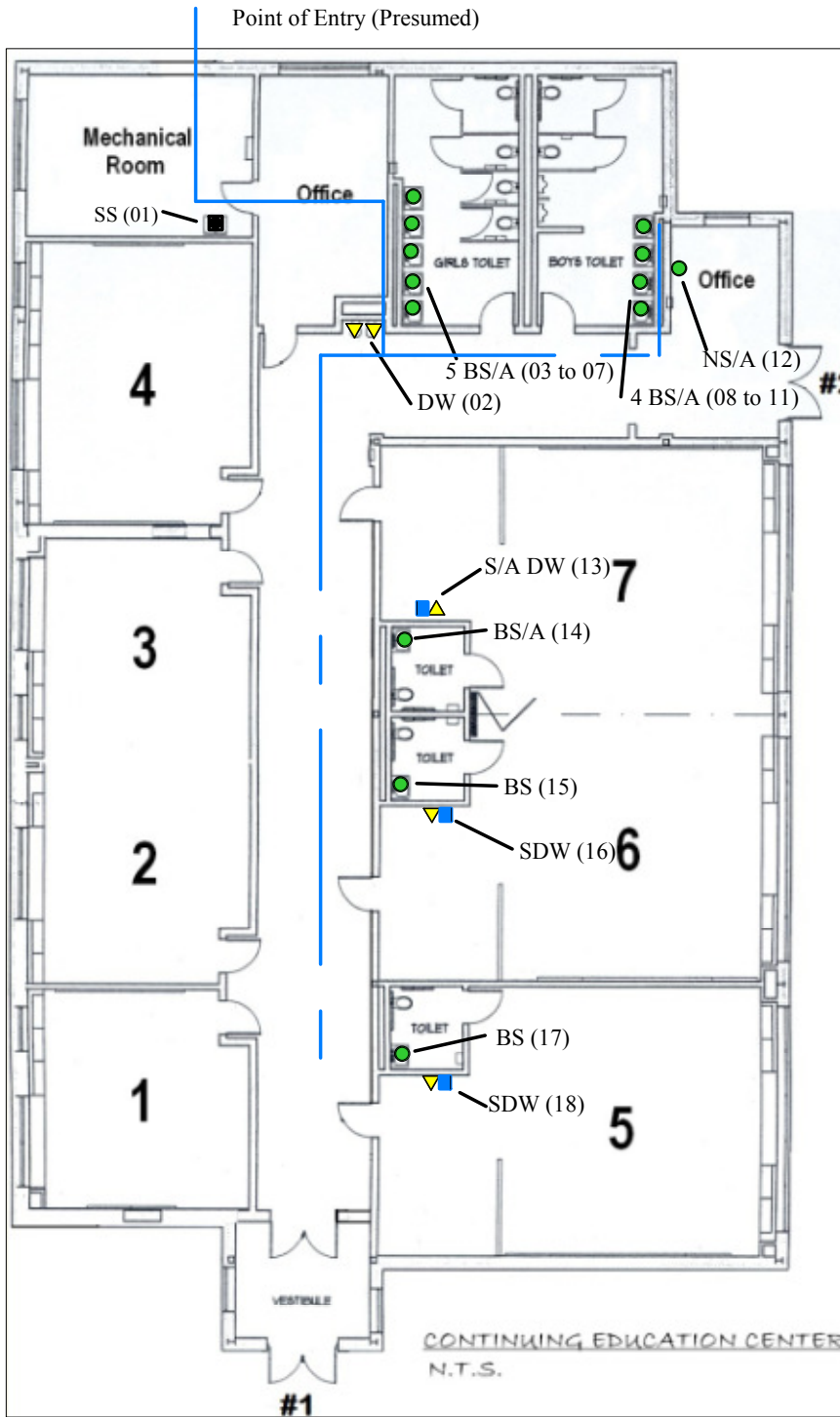
Short term:

- No further testing is recommended at this time.

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. Outlet Location Plan/Outlet Inventory



NOTE: Based on the limited information provided the following have been assumed:
 - Point of entry and pipe pathway. Outlet numbers have been assigned based on the assumed path.
 - Sinks have been assumed to have aerators
 - Fountains are assumed not to be chilled.

KEY

- KC = Kitchen Outlet, Cold
- ▲ WC = Water Cooler (Chilled Bubbler Unit)
- TL= Teacher Lounge Sink
- FP= Food Preparation Sink
- ▲ DW= Drinking Water Bubbler (non-chilled)
- ▲ SDW= Combination Sink Water Bubbler
- ▲ DDW=Double Drinking Water Bubbler
- EC = Home Economics Outlet, Cold
- IM = Ice Machine
- BS = Bathroom Sink
- NS = Nurse's Office Sink
- SS=Janitors Slop Sink
- /A = outlet has an aerator
- /F = outlet has a filter
- (01)=Outlet Number

Dwg. Title: Plumbing Schematic		
Location: EELC, Edison, NJ		
Client: Edison Board of Education		
OMEGA ENVIRONMENTAL SERVICES, INC.	280 Huyler Street	Date: 9/5/16
	S. Hackensack, NJ 07606	Proj. # 16-27002Q
	Tel: (201) 489-8700	Dwn. By: DSE
	Fax: (201) 342-5412	Dwg. # 27002Q-01P

Drinking Water Outlet Inventory

Name of School: Edison Early Learning Center

Address: 10 Boulevard of the Eagles, Edison, NJ 08817

Grade Levels:

Year School Constructed:

Renovations/Additions:

Individual school project officer Name/Signature:

Date Completed: 9/2016

Sample Location Codes

DW= Drinking Water Bubbler (unchilled)

DDW=Double Drinking Water Bubbler (unchilled)

WC = Water Cooler (Chilled Bubbler Unit)

DWC = Double Water Cooler (Chilled Bubbler Unit)

SWC= Combination Sink Chilled Water Cooler (chilled Bubbler Unit)

SDW= Combination Sink Water Bubbler

S= Misc. Sink; possible potable use

/A Aerator Present

/F= Outlet has a filter

KC = Kitchen Outlet, Cold

TL= Teacher Lounge Sink

CT= Cafeteria Outlet

EC = Home Economics Outlet, Cold

NS = Nurse's Office Sink

FP= Food Preparation Sink (not otherwise specified)

IM = Ice Machine

BS = Bathroom Sink

Outlet # ¹	Type	Location	Code	Op. ² (Y/N)	Cor. ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
01	Slop Sink	Mechanical Room	SS			N		N	N	N			
02	Water Fountain	Outside Main Office	DW			N		Y	N	N			
03	Bathroom Sink	Girls Lavatory	BS/A			N		Y	N	N			
04	Bathroom Sink	Girls Lavatory	BS/A			N		Y	N	N			

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² **Operational?** Document if permanently or temporarily out of service on the Plumbing Profile.

³ **Signs of Corrosion?** Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Filter Inventory.

N.V. – Not Verified

Edison Early Learning Center

Outlet	Type	Location	Code	Op. ²	Cor. ³	Filter ⁴	Brass	Aerator/	Motion	Chiller	Water Cooler		Comments
05	Bathroom Sink	Girls Lavatory	BS/A			N		Y	N	N			
06	Bathroom Sink	Girls Lavatory	BS/A			N		Y	N	N			
07	Bathroom Sink	Girls Lavatory	BS/A			N		Y	N	N			
08	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	N	N			
09	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	N	N			
10	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	N	N			
11	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	N	N			
12	Nurse's Sink	Office	ND/A			N		Y	N	N			
13	Comb. Sink/fountain	Room 7	S/A DW			N		Y	N	N			
14	Bathroom Sink	Room 7	BS/A			N		Y	N	N			
15	Bathroom Sink	Room 6	BS/A			N		Y	N	N			
16	Comb. Sink/fountain	Room 6	S/A DW			N		Y	N	N			
17	Bathroom Sink	Room 5	BS/A			N		Y	N	N			
18	Comb. Sink/fountain	Room 5	S/A DW			N		Y	N	N			

B. Lead in Water Laboratory Reports



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Omega Environmental Services

280 Huyler Street

South Hackensack, NJ 07606

Attn To : Michael Levay

Federal ID :

Copies To :

Received : 08/19/16 12:00 AM

Collected By : Kyle Brown

Sample Type : Potable Water

CC

Date Reported : 8/26/2016

Lab Number	Location	Collected	Lead	
			Units	ug/L
			Method	E200.8 : IOC
			Limits	15
1608J45-001A	01A -WF next to office (R) 1	8/17/2016 12:30:00 PM	Analysis Time	< 1.0 8/25/2016 2:55:58 PM EELC
1608J45-002A	01B -WF next to office (R) 2	8/17/2016 12:30:00 PM	Analysis Time	< 1.0 8/25/2016 2:58:53 PM EELC
1608J45-003A	02A-WF Rm 7 3	8/17/2016 12:30:00 PM	Analysis Time	3.1 8/25/2016 3:01:47 PM EELC
1608J45-004A	02B-WF Rm 7 4	8/17/2016 12:30:00 PM	Analysis Time	< 1.0 8/25/2016 3:04:42 PM EELC
1608J45-005A	03A-WF Rm 6 5	8/17/2016 12:30:00 PM	Analysis Time	2.4 8/25/2016 3:19:20 PM EELC

Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 + = ELAP / NELAC does not offer certification for this analyte

Treatments:	
A = Air Stripper Tower	G = Granular Activated Carbon
FM = Iron/Manganese Removal	
N = Nitrate Removal	O = Other

Test results meet the requirements of NELAC unless otherwise noted.

Elizabeth Harrison

Project Manager

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Federal ID :

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Received : 08/19/16 12:00 AM

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CC

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Lab Number	Location	Collected	Lead	
			Units	ug/L
			Method	E200.8 : IOC
			Limits	15
1608J45-006A	03B-WF Rm 6 6	8/17/2016 12:30:00 PM	Analysis Time	< 1.0 8/25/2016 3:22:15 PM EELC
1608J45-007A	04A-WF Rm 5 7	8/17/2016 12:30:00 PM	Analysis Time	2.1 8/25/2016 3:25:11 PM EELC
1608J45-008A	04B-WF Rm 5 8	8/17/2016 12:30:00 PM	Analysis Time	< 1.0 8/25/2016 3:28:05 PM EELC

Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
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Project Manager

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PACE ANALYTICAL
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **OES**

Date and Time Received: **8/19/2016**

Work Order Number: **1608J45**

RcptNo: **1**

Received by: **Matthew Grasso**

Completed by:

Reviewed by:

Completed Date: 8/19/2016 5:36:46 PM

Reviewed Date: 8/26/2016 1:13:28 PM

Carrier name: Client

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To °
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bill Sticker Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:
 Client Instructions:
 Date Contacted: Contacted By:
 Regarding:
 Comments:
 CorrectiveAction:

WorkOrder :
1608J45

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
P E NNS YLVANIA	68-00350