

## 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 <sup>st</sup> draw (FD) or flush (FL)	Results (ppb)	LCR Action Level <sup>(1)</sup> (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

<sup>(1)</sup> 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 (HNO<sub>3</sub>) 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:**

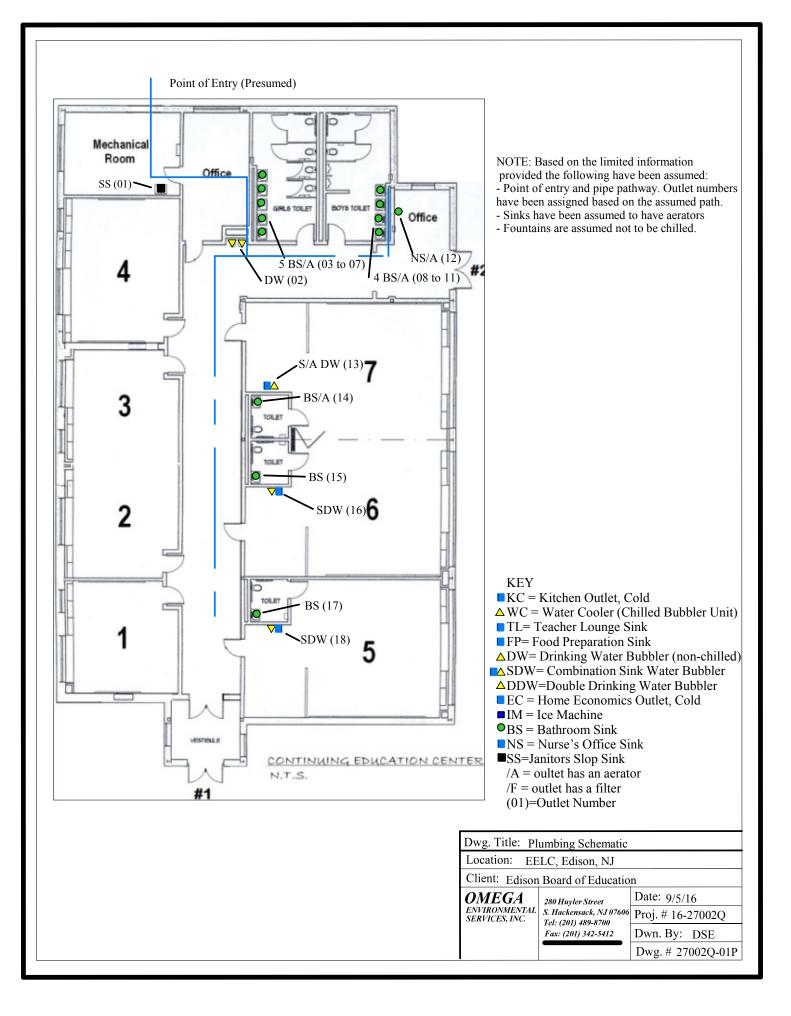
Short term:

• 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



### **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 schoo officer Name/Si		Date Completed: 9/2016
Sample Location	Codes	
DW= Drinking W	Vater Bubbler (unchilled)	KC = Kitchen Outlet, Cold
DDW=Double Dr	inking Water Bubbler (unchilled)	TL= Teacher Lounge Sink
WC = Water Cool	ler (Chilled Bubbler Unit)	CT= Cafeteria Outlet
DWC = Double W	Vater Cooler (Chilled Bubbler Unit)	EC = Home Economics Outlet, Cold
SWC= Combinati	on Sink Chilled Water Cooler (chilled Bubbler Unit)	NS = Nurse's Office Sink
SDW= Combinati	ion Sink Water Bubbler	FP= Food Preparation Sink (not otherwise specified)
S= Misc. Sink; po	ossible potable use	IM = Ice Machine
/A Aerator Presen	t /F= Outlet has a filter	BS = Bathroom Sink

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

<sup>4</sup> Document on Filter Inventory.

N.V. – Not Verified

 <sup>&</sup>lt;sup>1</sup> Number outlets starting at the closest outlet to the Point of Entry (POE).
 <sup>2</sup> Operational? Document if permanently or temporarily out of service on the Plumbing Profile.
 <sup>3</sup> Signs of Corrosion? Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

### Edison Early Learning Center

Outlet	Туре	Location	Code	Op. <sup>2</sup>	Cor. <sup>3</sup>	Filter <sup>4</sup>	Brass	Aerator/	Motion	Chiller	Wate	er Cooler	Comments
05	Bathroom Sink	Girls Lavatory	BS/A			N		Y	Ν	N			
06	Bathroom Sink	Girls Lavatory	BS/A			N		Y	Ν	N			
07	Bathroom Sink	Girls Lavatory	BS/A			N		Y	Ν	N			
08	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	Ν	N			
09	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	Ν	N			
10	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	Ν	N			
11	Bathroom Sink	Boy's Lavatory	BS/A			N		Y	Ν	N			
12	Nurse's Sink	Office	ND/A			N		Y	Ν	N			
13	Comb. Sink/fountain	Room 7	S/A DW			N		Y	Ν	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		01-	N		Y	N	N			
18	Comb. Sink/fountain	Room 5	S/A DW			N		Y	N	Ν			

# B. Lead in Water Laboratory Reports

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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'important Note: By signing this form you are accepting Pace's NET 30 day payment lerms and agreeing to late charges of 1.5% per month for any involces not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007



#### 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.

	SDOH ID#10478 <u>www.pacel</u>				
-	onmental Services				
280 Huyler Street South Hackensack, NJ 07606 Attn To : Michael Levay Federal ID :		Col	ecived : 08/19/16 12:00 AM lected By : Kyle Brown nple Type : Potable Water		
Copies To :			CC		Date Reported : 8/26/2016
Lab Number	Location	Collected	<u>Units</u> <u>Method</u> <u>Limits</u>	<u>Lead</u> ug/L E200.8 : IOC 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 NYSRegulatory 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						

Elizabeth Harrison

Test results meet the requirements of NELAC unless otherwise noted.

Project Manager

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#### 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 Envir	onmental Services				
280 Huyler St					
South Hacke Attn To : M	n <b>sack, NJ 07606</b> chael Levay			eived : 08/19/16 12:00 AM ected By : Kyle Brown	
Federal ID				nple Type : Potable Water	
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			<u>Units</u> Method	ug/L E200.8 : IOC	
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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 NYSRegulatory 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

Elezabeth Harrison

Test results meet the requirements of NELAC Project Manager

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unless otherwise noted.



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

Sampl	e Receipt	Checklist
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Client Name OES			Date and	Time Received:	8/19/2016
Work Order Number: 1608J45 Rcptl	No: 1		Received	d by: Matthew Gra	asso
Completed by:	$\geq$				Harrison
Completed Date: <u>8/19/2016 5:36:46 PM</u>		Revie	ewed Date:	8/26/2016	<u>5 1:13:28 PM</u>
Carrier name: <u>Client</u>					
Chain of custody present? Chain of custody signed when relinquished and receiv Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? Is it clear what analyses were requested?	Yes Yes Yes Yes Yes Yes	<ul> <li></li> &lt;</ul>	No No No No		
Custody seals intact on sample bottles?	Yes		No 🗌	Not Present	$\checkmark$
Samples in proper container/bottle? Were correct preservatives used and noted? Preservative added to bottles:	Yes Yes		No 🗌 No 🗌	NA	
Sample Condition? Sufficient sample volume for indicated test? Were container labels complete (ID, Pres, Date)? All samples received within holding time?	Intact Yes Yes Yes	<b>&gt;</b> <b>&gt;</b> <b>&gt;</b>	Broken No No No No	Leaking	
Was an attempt made to cool the samples? All samples received at a temp. of > $0^{\circ}$ C to $6.0^{\circ}$ C? Response when temperature is outside of range:	Yes Yes		No 🗌 No 🗌	NA NA	
Sample Temp. taken and recorded upon receipt? Water - Were bubbles absent in VOC vials? Water - Was there Chlorine Present? Water - pH acceptable upon receipt? Are Samples considered acceptable?	Yes Yes Yes Yes Yes		No 🔽 No 🗌 No 🗍 No 🗍	To No Vials NA No Water	
Custody Seals present? Airbill or Sticker? Airbill No:	Yes Air Bill		No 🗹 Sticker 🗌	Not Present	
Case Number: SDG:		S	AS:		
Any No response should be detailed in the comments		===	=====		
Client Contacted? Yes No V N Contact Mode: Phone: Fax: Client Instructions:	IA Person Cont	acted:	In Person:		

Contacted By:	
	Contacted By:

CorrectiveAction:



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u>

#### WorkOrder :

1608J45

## **Certifications**

CERTIFIC	CATION #
ORK 10	478
RSEY NY	158
TICUT PH-	0435
AND 2	08
USETTS MAN	Y026
PSHIRE 29	987
S LAND LAO	00340
VANIA 68-0	0350
TICUT PH- AND 2 USETTS MN PSHIRE 29 SLAND LAO	0435 08 IY026 987 00340

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