LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR**:**	Tom Wiggins South Plainfield Township Board of Education 165 Jackson Avenue South Plainfield, NJ 07080
SITE INVESTIGATED:	Roosevelt Administration Building 125 Jackson Avenue South Plainfield, NJ 07080
ASSESSMENT BY:	Kyle Brown Omega Environmental Services, Inc. 280 Huyler Street South Hackensack, NJ 07606
INVESTIGATION CONDUCTED:	11/10/16
DATE OF REPORT:	12/12/16

(Omega Project # 16-27004I)

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

TABLE OF CONTENTS

EXECUTIVE SUMMARY/PROJECT OVERVIEW

1. RESULTS TABLE

2. SAMPLING METHODOLOGY

3. DISCUSSION OF RESULTS

4 RECOMMENDATIONS

Appendices:

A. Laboratory Analytical Reports

EXECUTIVE SUMMARY:

The South Plainfield Township Board of Education requested lead in water testing of potable water outlets at Roosevelt Administration Building, 125 Jackson Avenue, South Plainfield, NJ 07080.

Previous Testing

No information related to previous testing was available.

Recent Testing (11/10/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on November 10, 2016.

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

First draw and flush samples (30 second) were collected of 2 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	1st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level (1) (ppb)
1	Lower Level Faculty Room Teachers Sink	FD	7.0	15
2	Drinking Water at Room 404 (L)	FD	Out of Order	15
3	Drinking Water at Room 404 (R)	FD	Out of Order	15
4	Water Cooler Gym	FD	Out of Order	15
5	Water Cooler at Room 411	FD	<1.0	15
6	Water Cooler at 2nd Floor Hallway	FD	Out of Order	15
7	Field Blank	Field Blank	<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 (HNO_3) 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 action is recommended in regards to outlets test

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.

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

A. Lead in Water Laboratory Reports

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 23, 2016

Emma Moody
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

RE: Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Dear Emma Moody:
Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Samples, in the electronic data deliverable (EDD) that accompanied this report, were flagged yellow if they exceeded the NYSDOH 15 ppb action level.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
Project Manager

Enclosures

cc: David Ekstrand, Omega Environmental Services
Michael Levay, Omega Environmental Services
Ray, Omega Environmental Services
Reports
Reports, Omega Environmental Services

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Lab ID	Sample ID	Matrix	Date Collected	Date Received
704713001	**1-TL-LOWER LEVEL FACULTY RM-FD**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704713002	**5-WC-WC @411-FD**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704713003	**7-FIELD BLANK**	Drinking Water	11/10/16 09:00	11/12/16 10:00

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
704713001	**1-TL-LOWER LEVEL FACULTY RM-FD**	EPA 200.8	AEG	1	PACE-MV
704713002	**5-WC-WC @411-FD**	EPA 200.8	AEG	1	PACE-MV
704713003	**7-FIELD BLANK**	EPA 200.8	AEG	1	PACE-MV

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Sample: 1-TL-LOWER LEVEL FACULTY RM-FD **Lab ID: 704713001** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**7.0**	ug/L	1.0	1		11/21/16 23:06	7439-92-1	

Sample: 5-WC-WC @411-FD **Lab ID: 704713002** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**<1.0**	ug/L	1.0	1		11/21/16 23:09	7439-92-1	

Sample: 7-FIELD BLANK **Lab ID: 704713003** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**<1.0**	ug/L	1.0	1		11/21/16 23:12	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

QC Batch: 4697 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 704713001, 704713002, 704713003

METHOD BLANK: 23746 Matrix: Water
Associated Lab Samples: 704713001, 704713002, 704713003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/21/16 22:02	

LABORATORY CONTROL SAMPLE: 23747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.1	96	85-115	

MATRIX SPIKE SAMPLE: 23749

Parameter	Units	704710003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.6	120	70-130	

SAMPLE DUPLICATE: 23748

Parameter	Units	704710003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SP BOE ROOSE ADMIN 16-27004I
Pace Project No.: 704713

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
704713001	**1-TL-LOWER LEVEL FACULTY RM-FD**	EPA 200.8	4697		
704713002	**5-WC-WC @411-FD**	EPA 200.8	4697		
704713003	**7-FIELD BLANK**	EPA 200.8	4697		

WO#:704713

704713

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be comple

OES

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Omega Environmental	Report To:	Michael Levay	Attention:	Accts Payable
Address:	280 Huyler Street	Copy To:	mikel@omega-env.com	Company Name:	Omega Environmental
	South Hackensack, NJ 07606		lab@omega-env.com	Address:	280 Huyler Street
Email To:	lab@omega-env.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	201.489.8700	Project Name:	SP BOE Roose, Admin	Pace Project Manager:	
Requested Due Date/TAT:	5 Day Tat	Project Number:	16-27004I	Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER X DRINKING WATER

UST RCRA OTH _____

Site Location STATE: NJ

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Lead in Water	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	1	TL	Lower Level Faculty Room	FD	DW	G			11/10/16	9:00		1			X							X		
2	2	DW	@ Room 404(L)	FD	DW	G						1			X							X		out of order
3	3	DW	@ Room 404(R)	FD	DW	G						1			X							X		↓
4	4	WC	Gym	FD	DW	G						1			X							X		↓
5	5	WC	WC @411	FD	DW	G						1			X							X		
6	6	WC	2nd Fl Hallway	FD	DW	G						1			X							X		out of order
7	7	0	Field Blank 0	FD	DW	G			↓	↓		1			X							X		
8	0	0	0	FD	DW	G						1			X							X		
9	0	0	0	FD	DW	G						1			X							X		
10	0	0	0	FD	DW	G						1			X							X		
11	0	0	0	FD	DW	G						1			X							X		
12	0	0	0	FD	DW	G						1			X							X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Brown	11/10/16	10:50		11/10/16	1300	
		11/10/16	1500		11/12/16	1000	Box

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Brown Omega Environemental

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 11/10/16

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler	Samples Intact (Y/N)

WO#:704713
PM: EMH Due Date: 11/21/16
CLIENT: OES

Pace Analytical

Sample Condition Upon Receip

Client Name: OES

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7846 2054 6370

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: TH077 TH078 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

10:00

Cooler Temperature: _____ Box

Date and Initials of person examining contents: 11/12/16 JP

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 5 TAT
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix SL (WT) OIL		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	Initial when completed: / Lot # of added preservative:
Exceptions: VOA, micro, TOC, O&G		Date and Time preservative added:
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.00