



LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Steve Belloise
Archdiocese of Newark
171 Clifton Avenue
P.O. Box 9500
Newark, NJ 07104

SITE INVESTIGATED: Our Lady of Good Counsel/Maria Varisco
Building #243
243 Woodside Avenue
Newark, NJ 07104

ASSESSMENT BY: Curtis St Louis
Omega Environmental Services, Inc.
280 Huyler Street
South Hackensack, NJ 07606

INVESTIGATION
CONDUCTED: 3/7/17

DATE OF REPORT: 4/19/17

(Omega Project # 16-26062)

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 Archdiocese of Newark requested lead in water testing of potable water outlets at Our Lady of Good Counsel/Maria Varisco Building #243, 243 Woodside Avenue, Newark, NJ 07104.

Previous Testing

On January 29, 2017 Omega performed a screen testing of a few representative outlets. First draw and flush samples (30 second) were collected of 11 water fountains and sinks.

Results of the first draw samples revealed six results above the Lead and Copper Rule action level of 15 ppb. Most of the flush samples of the outlets above 15ppb were then analyzed and found to be below 15 ppb. One flush sample result was above 15 ppb. See report dated February 22, 2017.

Recent Testing (3/7/17)

In order to assess the building water outlets a full testing of all potable outlets was performed on March 7, 2017.

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

First draw and flush samples (30 second) were collected of 7 water fountains and sinks.

Results of most first draw samples analyzed were below the Lead and Copper Rule action level of 15 ppb. Four first draw samples were above 15 ppb. The associated flush samples were below 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Sample #	Location	1 st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
01	Basement Girls Bathroom Faucet #1	FD	11.4	15
02	Basement Girls Bathroom Faucet #1	FL	N/A	15
03	Basement Girls Bathroom Faucet #2	FD	26.3	15
04	Basement Girls Bathroom Faucet #2	FL	6.8	15
07	Main Floor Boys Bathroom Faucet #1	FD	33.7	15
08	Main Floor Boys Bathroom Faucet #1	FL	9.5	15
09	Main Floor Boys Bathroom Faucet #2	FD	21.0	15
10	Main Floor Boys Bathroom Faucet #2	FL	9.2	15
17	2 nd Floor Girls Bathroom Faucet #1	FD	14.8	15
18	2 nd Floor Girls Bathroom Faucet #1	FL	N/A	15
19	2 nd Floor Girls Bathroom Faucet #2	FD	16.8	15
20	2 nd Floor Girls Bathroom Faucet #2	FL	8.2	15
21	2 nd Floor Boys Bathroom Faucet #1	FD	9.2	15
22	2 nd Floor Boys Bathroom Faucet #1	FL	N/A	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:

Four first draw sample results were above 15 ppb, but the associated flush samples results were below 15 ppb. This indicates the source of lead is related to the fixtures themselves, not in the main building plumbing.

4 RECOMMENDATIONS:

Short term:

- Take any outlets with elevated results out of service.
- Conduct further evaluation and testing of outlets with elevated results.

Long Term:

- If additional testing shows similar results (first draw results above 15 ppb) consider replacing the spout of the fountains (may contain brass, adding to lead levels), installing filters (if practical), or fixture replacement.
- 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

April 06, 2017

Lab Reports
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

RE: Project: ARCH OF NEWARK
Pace Project No.: 7014477

Dear Lab Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2017. 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
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ARCH OF NEWARK
Pace Project No.: 7014477

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ARCH OF NEWARK

Pace Project No.: 7014477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7014477001	04-BSMT GIRLS BR FAUC #2 FL	Drinking Water	03/07/17 08:45	03/30/17 10:53
7014477002	08-MAIN FL BOYS BATH F #1 -FL	Drinking Water	03/07/17 08:45	03/30/17 10:53
7014477003	10-MAIN FL BOYS BR F #2-FL	Drinking Water	03/07/17 08:45	03/30/17 10:53
7014477004	20-2ND FL GIRLS EF #2-FL	Drinking Water	03/07/17 08:45	03/30/17 10:53

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SAMPLE ANALYTE COUNT

Project: ARCH OF NEWARK

Pace Project No.: 7014477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7014477001	04-BSMT GIRLS BR FAUC #2 FL	EPA 200.8	SK2	1	PACE-MV
7014477002	08-MAIN FL BOYS BATH F #1 -FL	EPA 200.8	SK2	1	PACE-MV
7014477003	10-MAIN FL BOYS BR F #2-FL	EPA 200.8	SK2	1	PACE-MV
7014477004	20-2ND FL GIRLS EF #2-FL	EPA 200.8	SK2	1	PACE-MV

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ANALYTICAL RESULTS

Project: ARCH OF NEWARK
Pace Project No.: 7014477

Sample: 04-BSMT GIRLS BR FAUC #2 FL Lab ID: 7014477001 Collected: 03/07/17 08:45 Received: 03/30/17 10:53 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	6.8	ug/L	1.0	1		04/04/17 17:32	7439-92-1	

Sample: 08-MAIN FL BOYS BATH F #1 -FL Lab ID: 7014477002 Collected: 03/07/17 08:45 Received: 03/30/17 10:53 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	9.5	ug/L	1.0	1		04/04/17 17:35	7439-92-1	

Sample: 10-MAIN FL BOYS BR F #2-FL Lab ID: 7014477003 Collected: 03/07/17 08:45 Received: 03/30/17 10:53 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	9.2	ug/L	1.0	1		04/04/17 17:38	7439-92-1	

Sample: 20-2ND FL GIRLS EF #2-FL Lab ID: 7014477004 Collected: 03/07/17 08:45 Received: 03/30/17 10:53 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	8.2	ug/L	1.0	1		04/04/17 17:41	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Date: 04/06/2017 10:03 AM

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Page 5 of 10

QUALITY CONTROL DATA

Project: ARCH OF NEWARK

Pace Project No.: 7014477

QC Batch: 19140 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 7014477001, 7014477002, 7014477003, 7014477004

METHOD BLANK: 91000 Matrix: Water
Associated Lab Samples: 7014477001, 7014477002, 7014477003, 7014477004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	04/04/17 16:57	

LABORATORY CONTROL SAMPLE: 91001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.6	97	85-115	

MATRIX SPIKE SAMPLE: 91004

Parameter	Units	7014355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.3	98	70-130	

MATRIX SPIKE SAMPLE: 91006

Parameter	Units	7014537001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.2	100	70-130	

SAMPLE DUPLICATE: 91003

Parameter	Units	7014355001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

SAMPLE DUPLICATE: 91005

Parameter	Units	7014537001 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

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QUALIFIERS

Project: ARCH OF NEWARK

Pace Project No.: 7014477

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ARCH OF NEWARK

Pace Project No.: 7014477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014477001	04-BSMT GIRLS BR FAUC #2 FL	EPA 200.8	19140		
7014477002	08-MAIN FL BOYS BATH F #1 -FL	EPA 200.8	19140		
7014477003	10-MAIN FL BOYS BR F #2-FL	EPA 200.8	19140		
7014477004	20-2ND FL GIRLS EF #2-FL	EPA 200.8	19140		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

WO#: 7014477

Section A Required Client Information:		Section B Report To: Lab@omega-env.com		Section C Invoice Information:	
Company:	Omega Environmental	Report To:	Lab@omega-env.com	Attention:	Accts Payable
Address:	280 Huyler Street S. Hackensack, NJ 07606	Copy To:	mikel@omega-env.com, davide@omega-env.com	Company Name:	Omega Environmental
Email To:	Lab@Omega-env.com	Purchase Order No:	emmam@omega-env.com	Address:	280 Huyler St, S Hackensack, NJ
Phone:	201-489-8700	Project Name:	Arch of Newari	Pace Quote Reference:	
Requested Due Date/TAT:	5 day	Project Number:	16-26062	Pace Project Manager:	



REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location: NJ
STATE: NJ

Section D Required Client Information	Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives										Analysis Test	Lead in drink water 200.8	Residual Chlorine (Y/N)	Pace Project No./ Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	MATRIX	CODE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE Our way of good connect Mario Salas	1	01-0501	Girls bathroom faucet	SP	08/01/17	08/01/17	8:45																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on	Sealed Cooler	Samples Intact
Analyze all first draw samples for each building. If not, analyze first draw sample for each building. The matching first draw sample for each building.		Curtis ST Louis	3/16/17	2:50 PM	Curtis ST Louis	3/16/17	2:50 PM	10.5	Y	Y	Y
FD - First Draw Sample		Curtis ST Louis	3/16/17	9:30	Curtis ST Louis	3/16/17	9:30	10.5	Y	Y	Y
FL - Flush Sample		Curtis ST Louis	3/16/17	11:50	Curtis ST Louis	3/16/17	11:50	10.5	Y	Y	Y



Sample Condition Upon Receipt

WO#: 7014477

PM: EMH Due Date: 04/06/17
CLIENT: OES

Client Name: _____

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

Tracking #: 7787 7206 1143

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

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

Cooler Temperature: _____

Date and Initials of person examining contents: 3/30/17 JR

Temp should be above freezing to 6°C

Comments: _____

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: The lab received bottle #s 4, 8, 10 + 20 3/30/17

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

F-LI-C-002-rev.00

Sample #	Location	1 st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	Basement Girls Bathroom Faucet #1	FD	11.4	15
2	Basement Girls Bathroom Faucet #1	FL	N/A	15
3	Basement Girls Bathroom Faucet #2	FD	26.3	15
4	Basement Girls Bathroom Faucet #2	FL	6.8	15
7	Main Floor Boys Bathroom Faucet #1	FD	33.7	15
8	Main Floor Boys Bathroom Faucet #1	FL	9.5	15
9	Main Floor Boys Bathroom Faucet #2	FD	21	15
10	Main Floor Boys Bathroom Faucet #2	FL	9.2	15
17	2 nd Floor Girls Bathroom Faucet #1	FD	14.8	15
18	2 nd Floor Girls Bathroom Faucet #1	FL	N/A	15
19	2 nd Floor Girls Bathroom Faucet #2	FD	16.8	15
20	2 nd Floor Girls Bathroom Faucet #2	FL	8.2	15

21	2 nd Floor Boys Bathroom Faucet #1	FD	9.2	15
22	2 nd Floor Boys Bathroom Faucet #1	FL	N/A	15