

LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Kenneth Stromsland

Board of Education Township of Edison

312 Pierson Avenue Edison, NJ 07642

SITE INVESTIGATED: James Madison Intermediate

838 New Dover Road Edison, NJ 08820

ASSESSMENT BY: Kyle Brown

Omega Environmental Services, Inc.

280 Huyler Street

South Hackensack, NJ 07606

INVESTIGATION

CONDUCTED: 8/5/16

DATE OF REPORT: 9/6/16

(Omega Project # 16-27002C)

TABLE OF CONTENTS

EXECUTIVE SUMMARY/PROJECT OVERVIEW

- 1. RESULTS TABLE
- 2. SAMPLING METHODOLOGY
- 3. DISCUSSION OF RESULTS
- 4 RECOMMENDATIONS

Appendices:

- A. Outlet Location Plan
- B. Laboratory Analytical Reports

EXECUTIVE SUMMARY:

The Board of Education Township of Edison requested lead in water testing of potable water outlets at James Madison Intermediate, 838 New Dover Road, Edison, NJ 08820.

Previous Testing

No information related to previous testing was available.

Recent Testing (8/05/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on August 5, 2016.

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

First draw and flush samples (30 second) were collected of 10 water fountains and sinks.

Results of most first draw samples analyzed were below the Lead and Copper Rule action level of 15 ppb. One first draw samples were above 15 ppb. Some of the associated flush samples were above 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)
13	1	Kitchen Sink	FD	3.1	15
13	2	Kitchen Sink	FL	2.6	15
12	3	Sink in Nurse's Office	FD	18	15
12	4	Sink in Nurse's Office	FL	<1.0	15
12A	5	Water Fountain by Nurse's Office	FD	8.7	15
12A	6	Water Fountain by Nurse's Office	FL	1.3	15
01	7	Water Fountain next to Room 5	FD	5.4	15
01	8	Water Fountain next to Room 5	FL	1.2	15
02	9	Water Fountain across Room 7 (R)	FD	13	15
02	10	Water Fountain across Room 7 (R)	FL	1.9	15
23	11	Water Fountain across Room 13 (R)	FD	13	15
23	12	Water Fountain across Room 13 (R)	FL	5.2	15
24	13	Water Fountain across Room 13 (L)	FD	4.9	15
24	14	Water Fountain across Room 13 (L)	FL	1.3	15
25	15	Water Fountain across Room 19 (R)	FD	<1.0	15
25	16	Water Fountain across Room 19 (R)	FL	<1.0	15
38	17	Faculty Sink	FD	8.2	15
38	18	Faculty Sink	FL	<1.0	15
20	19	Water Fountain near Room 26 (R)	FD	2.0	15
20	20	Water Fountain near Room 26 (R)	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:

One first draw sample results was marginally above 15 ppb, but the associated flush sample result was below 15 ppb. This indicates the source of lead is related to the fixture itself, not in the main building plumbing.

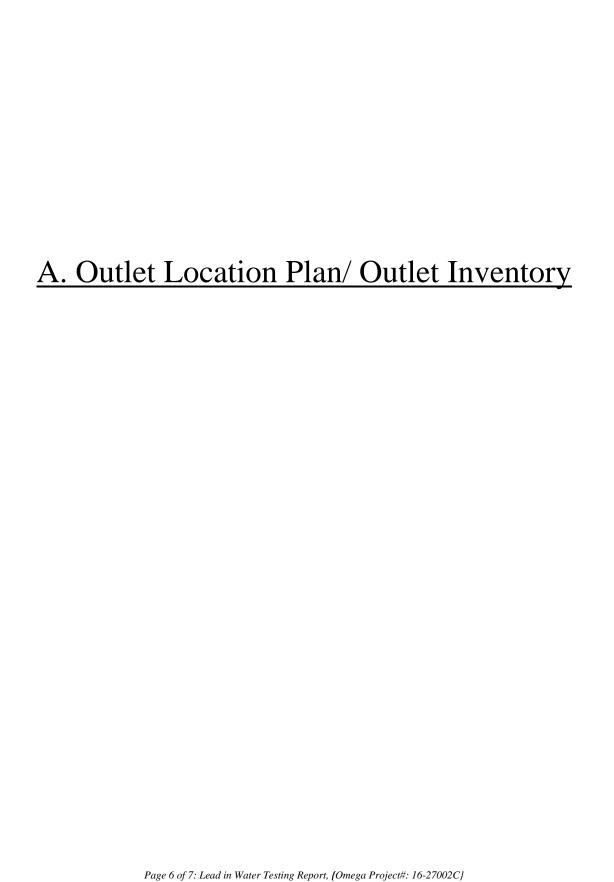
4 **RECOMMENDATIONS:**

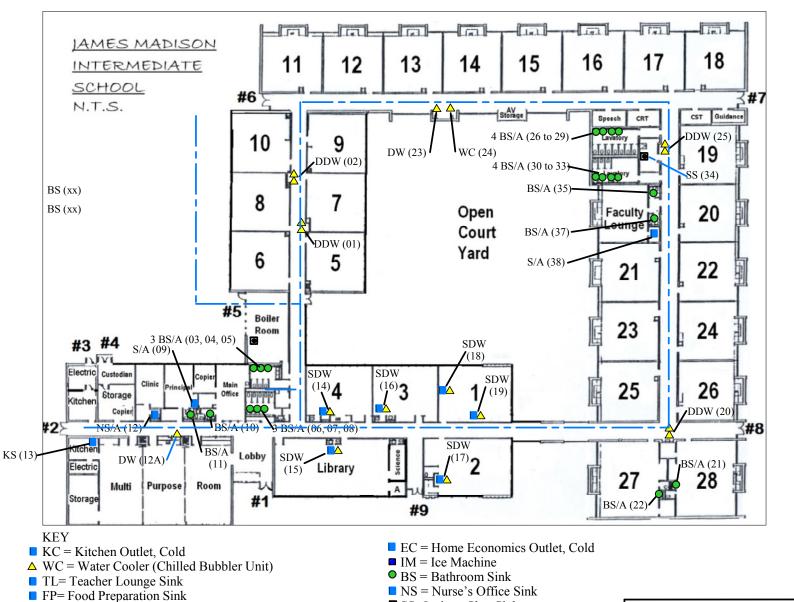
Short term:

- Take any outlets with elevated results out of service
- Conduct further evaluation and testing of outlets with elevated results.
- If an aerator is present, remove and re-test the one outlet. If outlet has been out of service for more than a few days, verify proper pre-sampling procedures are followed for the outlet to be tested.

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.





- △ DW= Drinking Water Bubbler (non-chilled)
- SDW= Combination Sink Water Bubbler
- △ DDW=Double Drinking Water Bubbler

- SS=Janitors Slop Sink /A = oultet has an aerator
- /F = outlet has a filter
- (01)=Outlet Number

Notes

- 1. Original building was constructed in 1957. Rooms 11 through 28 were constructed in 1967.
- 2. Piping runs above ceilings in hallway with branches and lateral to each group of outlets.

Dwg. Title: Plumbing Schematic

Location: James Madison Intermediate School, Edison, NJ

Client: Edison Township Board of Education

OMEGA ENVIRONMENTAL SERVICES, INC.

280 Huvler Street S. Hackensack, NJ 07606 Proj. # 16-27002C Tel: (201) 489-8700 Fax: (201) 342-5412

Date: 8/24/16

Dwn. By: DSE

Dwg. # 27002C-01P

Drinking Water Outlet Inventory

Name of School: James Madison Intermediate School Address: 838 New Dover Road, Edison, NJ 08820

Grade Levels: Year School Constructed: 1957 Renovations/Additions: 1967

Individual school project officer Name/Signature:

Date Completed: 8/2016

Sample Location Codes

DW= Drinking Water Bubbler (unchilled)

KC = Kitchen Outlet, Cold

DDW=Double Drinking Water Bubbler (unchilled)

TL= Teacher Lounge Sink

WC = Water Cooler (Chilled Bubbler Unit)

CT = Cafeteria Outlet

DWC = Double Water Cooler (Chilled Bubbler Unit) EC = Home Economics Outlet, Cold

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

NS = Nurse's Office Sink

SDW= Combination Sink Water Bubbler FP= Food Preparation Sink (not otherwise specified)

S= Misc. Sink; possible potable use IM = Ice Machine

/A Aerator Present /F= Outlet has a filter BS = Bathroom Sink

							Brass				Wate	er Cooler	
Outlet # ¹	Туре	Location	Code	Op. ² (Y/N)	Cor. ³ (Y/N)	Filter ⁴ (Y/N)	Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Make	Model	Comments
01	Double Drinking Water Bubbler	Left of Room 5	DDW	Y		N		N	N	N			
02	Double Drinking Water Bubbler	Left of Room 10	DDW	Y		N		N	N	N			
03	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			

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

N.V. - Not Verified

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.

James Madison Intermediate School

Outlet	Туре	Location	Code	Op. ²	Cor. ³	Filter ⁴	Brass	Aerator/	Motion	Chiller	Wate	er Cooler	Comments
04	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			
05	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			
06	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			
07	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			
08	Bathroom Sink	Lavatory Near Boiler Room	BS/A	N.V.		N		Y	N	N			
09	Sink	Principle Office	S/A	N.V.		N		Y	N	N			
10	Bathroom Sink	Main Office	BS/A	N.V.		N		Y	N	N			
11	Bathroom Sink	Principle Office	BS/A	N.V.		N		Y	N	N			
12	Nurse's Sink	Clinic	NS/A	Y		N.V.		Y	N	N			
12A	Drinking Water Bubbler	By Clinic		Y		N		N	N	N			
13	Kitchen Sink	Kitchen	KC	Y		N.V.		Y	N	N			
14	Comb. Sink/Bubbler	Room 4	SDW	Y		N.V.		N.V.	N	N			
15	Comb. Sink/Bubbler	Library	SDW	Y		N.V.		N.V.	N	N			
16	Comb. Sink/Bubbler	Room 3	SDW	Y		N.V.		N.V.	N	N			
17	Comb. Sink/Bubbler	Room 3	SDW	Y		N.V.		N.V.	N	N			
18	Comb. Sink/Bubbler	Room 1	SDW	Y		N.V.		N.V.	N	N			
19	Comb. Sink/Bubbler	Room 1	SDW	Y		N.V.		N.V.	N	N			
20	Double Drinking Water Bubbler	Left of Room 27	DDW	Y		N		N	N	N			
21	Bathroom Sink	Bathroom in Room 28	BS/A	N.V.		N		Y	N	N			
22	Bathroom Sink	Bathroom in Room 27	BS/A	N.V.		N		Y	N	N			
23	Drinking Water Bubbler	Across From Room 13	DW	Y		N		N	N	N			
24	Drinking Water Bubbler	Across From Room 14	DW	Y		N		N	N	N			
25	Double Drinking Water Bubbler	Across From Room 19	DDW	Y		N		N	N	N			
26	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
27	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
28	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
29	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			

James Madison Intermediate School

Outlet	Туре	Location	Code	Op. ²	Cor. ³	Filter ⁴	Brass	Aerator/	Motion	Chiller	Wate	er Cooler	Comments
30	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
31	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
32	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
33	Bathroom Sink	Lavatory Across From Room 19	BS/A	N.V.		N		Y	N	N			
34	Slop Sink	Across From Room 19	SS	N.V.		N		N	N	N			
35	Bathroom Sink	Faculty Lounge Bathroom	BS/A	N.V.		N		Y	N	N			
36	# not used												
37	Bathroom Sink	Faculty Lounge Bathroom	BS/A	N.V.		N		Y	N	N			
38	Sink	Faculty Lounge	S/A	N.V.		N		Y	N	N			

B. Lead in Water Laboratory Reports

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical "

Section A Required Client Information:	Section B Required Project Information:	formation.			n s	Section C Invoice Information	.iigu				K	Page:	S	7	
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TEL: (631) 694-3040 FAX: (631) 420-8436

www.pacelabs.com

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

NYSDOH ID#10478

280 Huyler Street

South Hackensack, NJ 07606

Attn To: Michael Levay

Federal ID:

Received : 08/11/16 1:45 PM

Collected By : Client

Sample Type: Potable Water

Date Reported: 8/22/2016 Copies To: CC

				<u>Lead</u>	
			<u>Units</u>	ug/L	
			Method	E200.8 : IOC	
Lab Number	Location	Collected	Limits	15	
1608C16-001A Distribution	01-KS-FD 1	8/5/2016 1:00:00 PM	Analysis Time	3.1 8/19/2016 7:32:00 PM JAMES MADISON INTERMEDIATE	
1608C16-002A Distribution	03-SINK IN NURSE'S OFI	F 8/5/2016 1:00:00 PM	Analysis Time	18 * 8/19/2016 7:34:57 PM JAMES MADISON INTERMEDIATE	
1608C16-003A Distribution	05-WF BY NURSES OFF	8/5/2016 1:00:00 PM	Analysis Time	8.7 8/19/2016 7:37:52 PM JAMES MADISON INTERMEDIATE	
1608C16-004A Distribution	07-WF NEXT TO RM 5 L- 7	F 8/5/2016 1:00:00 PM	Analysis Time	5.4 8/19/2016 7:40:46 PM JAMES MADISON INTERMEDIATE	
1608C16-005A Distribution	09-WF ACROSS RM 7 R- 9	F 8/5/2016 1:00:00 PM	Analysis Time	13 8/19/2016 7:55:26 PM JAMES MADISON INTERMEDIATE	

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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			·	<u>Lead</u>
			<u>Units</u>	ug/L
			Method	E200.8 : IOC
Lab Number	Location	Collected	Limits	15
1608C16-006A Distribution	11-WF ACROSS RM 13 R- 11	8/5/2016 1:00:00 PM	Analysis Time	13 8/19/2016 7:58:20 PM JAMES MADISON INTERMEDIAT
1608C16-007A Distribution	13-WF ACROSS RM 13 L- 13	8/5/2016 1:00:00 PM	Analysis Time	4.9 8/19/2016 8:01:15 PM JAMES MADISON INTERMEDIAT
1608C16-008A Distribution	15-WF ACROSS RM 19 R- 15	8/5/2016 1:00:00 PM	Analysis Time	< 1.0 8/19/2016 8:04:10 PM JAMES MADISON INTERMEDIAT
1608C16-009A Distribution	17-FACULTY SINK-FD 17	8/5/2016 1:00:00 PM	Analysis Time	8.2 8/19/2016 8:07:04 PM JAMES MADISON INTERMEDIAT
1608C16-010A Distribution	19-WF NEAR RM 26 R-FD 19	8/5/2016 1:00:00 PM	Analysis Time	2.0 8/19/2016 8:10:00 PM JAMES MADISON INTERMEDIAT

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

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				<u>Lead</u>
			<u>Units</u>	ug/L
			Method	E200.8 : IOC
Lab Number	Location	Collected	Limits	15
1608C16-011A Distribution	02-KS-FL 2	8/5/2016 1:00:00 PM	Analysis Time	2.6 8/19/2016 8:12:56 PM JAMES MADISON INTERMEDIA
1608C16-012A Distribution	04-SINK IN NURSE'S C 4	OFFI 8/5/2016 1:00:00 PM	Analysis Time	< 1.0 8/19/2016 8:15:51 PM JAMES MADISON INTERMEDIA
1608C16-013A Distribution	06-WF BY NURSES OF	FFI 8/5/2016 1:00:00 PM	Analysis Time	1.3 8/19/2016 8:30:32 PM JAMES MADISON INTERMEDIA
1608C16-014A Distribution	08-WF NEXT TO RM 5 8	L-F 8/5/2016 1:00:00 PM	Analysis Time	1.2 8/19/2016 8:33:27 PM JAMES MADISON INTERMEDIA
1608C16-015A Distribution	10-WF ACROSS RM 7 10	R-F 8/5/2016 1:00:00 PM	Analysis Time	1.9 8/19/2016 8:36:23 PM JAMES MADISON INTERMEDIA

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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Pace Analytical
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436

www.pacelabs.com

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before recei

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

NYSDOH ID#10478

280 Huyler Street

South Hackensack, NJ 07606

Attn To: Michael Levay

Federal ID:

Received

: 08/11/16 1:45 PM

Collected By : Client

Sample Type : Potable Water

Copies To:

Date Reported: 8/22/2016

				<u>Lead</u>	
			<u>Units</u>	ug/L	
			Method	E200.8 : IOC	
Lab Number	Location	Collected	Limits	15	
1608C16-016A	12-WF ACROSS RM 13 R- 12	8/5/2016 1:00:00 PM	Analysis Time	5.2 8/19/2016 8:39:18 PM	
Distribution				JAMES MADISON INTERMEDIATE	
1608C16-017A	14-WF ACROSS RM 13 L- 14	8/5/2016 1:00:00 PM	Analysis Time	1.3 8/19/2016 8:42:13 PM	
Distribution			Time	JAMES MADISON INTERMEDIATE	
1608C16-018A	16-WF ACROSS RM 19 R- 16	8/5/2016 1:00:00 PM	Analysis Time	< 1.0 8/19/2016 8:45:09 PM	
Distribution				JAMES MADISON INTERMEDIATE	
1608C16-019A	18-FACULTY SINK-FL 18	8/5/2016 1:00:00 PM	Analysis Time	< 1.0 8/19/2016 8:48:03 PM	
Distribution				JAMES MADISON INTERMEDIATE	
1608C16-020A	20-WF NEAR RM 26 R-FL 20	8/5/2016 1:00:00 PM	Analysis Time	< 1.0 8/19/2016 8:50:57 PM	
Distribution				JAMES MADISON INTERMEDIATE	

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with Exceed NYSRegulatory Limit(s). Limit noted.

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Test results meet the requirements of NELAC unless otherwise noted.

Project Manager

Elizabeth Harrison

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PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747

Sample Receipt Checklist

TEL: (631) 694-3040 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Client Name OES			Date ar	nd Time Received:	8/11/2016 1:45:00 PM
Work Order Number: 1608C16 RcptNo: 1			Receive	ed by: John Lagula	3
Completed by: Jackyn Zwi		Revi	ewed by:	Elgabeth	Harrison
Completed Date: 8/11/2016 9:36:15 PM		Revi	ewed Date:	8/22/2016	10:27:59 PM
Carrier name: <u>Client</u>					
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	\checkmark
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 🗌	_0ag	
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 🗹	То	0
Water - Were bubbles absent in VOC vials?	Yes		No 🗆	No Vials	\checkmark
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	ightharpoons
Airbill No:	All Bill		Stickei 🗀	NOT Fresent	
Allbill No.					
Case Number: SDG:		S	SAS:		
Any No response should be detailed in the comments section	n below, if appl	icable			
Client Contacted?	Person Conta	acted:			
Contact Mode: Phone: Fax:	Email:		In Person	:	
Client Instructions:					
Date Contacted: Conta	cted By:				
Regarding:					
Comments:					
CorrectiveAction:					
CONSCRIVENCIALION.					



 $\frac{\text{WorkOrder:}}{1608C16}$

Certifications

STATE	CERTIFICATION#
NEW YORK	10478
NEW JERS EY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	MNY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350