

Mr. Albert Tijerina  
East Aurora School District 131  
Director of Building and Grounds  
411 Hill Avenue  
Aurora, Illinois 60505

**RE: Lead Sampling in Potable Water - RETEST  
O'Donnell Elementary School  
1640 Reckinger Road, Aurora, IL 60505**

Dear Mr. Tijerina:

The following letter report summarizes the laboratory results for the drinking water samples collected from retested potable water sources at O'Donnell Elementary School in Aurora, Illinois. The sampling was conducted on March 10, 2018 by Ms. Olivia Reynhout of Weaver Consultants Group (WCG). Ms. Reynhout conducted the sampling under the direction of Mr. David J. Kedrowski, CIH.

#### **SCOPE OF WORK**

The scope of work for this project involved collecting water samples from locations previously found to be above 2ppb. The re-tested potable locations were provided to WCG by East Aurora School District 131. The collected re-tested potable water samples were then analyzed for lead by an accredited laboratory.

#### **METHODOLOGY**

WCG followed protocols set by U.S. Environmental Protection Agency (EPA) and Illinois Department of Public Health (IDPH) for testing schools for lead in drinking water. Representatives from East Aurora School District 131 confirmed the school was under normal use and ensured the water settled within the piping systems/fixtures for between eight (8) to eighteen (18) hours.

Nine (9) water samples from representative potable water locations to be re-tested were collected in 250 milliliter bottles. The water samples were collected as a "first draw" from each source to represent a lead concentration from water allowed to sit within the pipes or drinking reservoirs for at least eight (8) hours and not more than eighteen (18) hours. A second sample was collected from each location after a 30 second flush to represent water from within the building's localized water piping system.

Each sample was labeled with a unique sample number identifying the school. The samples were transported to Suburban Labs Incorporated (Suburban) in Geneva, Illinois. Samples were analyzed for lead content using EPA Method 200.8 "Determination of Trace Elements in Water using Inductively Coupled Plasma (ICP)/Mass Spectrometry (MS). Suburban is accredited to analyze lead in potable drinking water under the National Environmental Laboratory Accreditation Program (NELAP).

## **RESULTS**

The results of the water sample analysis revealed that four (4) samples of the nine (9) collected for re-testing had lead concentrations above the IDPH Action Level of 2 ppb ( $\mu\text{g/L}$ ). All sample results that exceed 5  $\mu\text{g/L}$  should be promptly reported to parents or guardians of the enrolled students as required by the Illinois Department of Public Health (IDPH).

## **CONCLUSIONS AND RECOMMENDATIONS**

- 1) Implement corrective action for fixtures greater than 2  $\mu\text{g/L}$ .
- 2) Implement best practices to minimize lead concentrations in drinking water.

## **BEST PRACTICES**

Best practices for managing elevated lead concentrations in drinking water may include implementing a water quality management plan (WQMP), establishing a routine water flushing program for potable sources daily or during periods of low occupancy or low water usage, routine maintenance to clean screens and aerators, and confirmation sampling. In addition, occupants should avoid consuming water from non-potable sources i.e. classroom or office sinks, washroom sinks, maintenance closets, etc. and hot water taps.

A summary of the sample locations and results may be found in Appendix A and the laboratory report with chain of custody sheets may be found in Appendix B. We appreciate the opportunity to assist you on this important project.

Sincerely,

**Weaver Consultants Group North Central, LLC**



David J. Kedrowski, CIH  
Senior Project Director

**APPENDIX A**

**Lead in Potable Water Sample Results**

**O'Donnell Elementary School  
1640 Reckinger Road  
Aurora, IL 60505**

O'Donnell Elementary School  
 1640 Reckinger Road  
 Aurora, IL 60505

ISBE ID	Sample Date	Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Concentration (ug/L)
31045131022014	03/10/2018	07:24 AM	ODONN-32ART	1st Floor - Room 102	S - Sink	03/09/2018	06:25 PM	First Draw	ND
31045131022014	03/10/2018	07:24 AM	ODONN-32BRT	1st Floor - Room 102	S - Sink	03/09/2018	06:25 PM	Flush	ND
31045131022014	03/10/2018	07:21 AM	ODONN-35ART	1st Floor - Room 101	S - Sink	03/09/2018	06:25 PM	First Draw	86.7
31045131022014	03/10/2018	07:21 AM	ODONN-35BRT	1st Floor - Room 101	S - Sink	03/09/2018	06:25 PM	Flush	4.63
31045131022014	03/10/2018	07:28 AM	ODONN-37ART	1st Floor - Gym - Kitchen	KS - Kitchen Sink	03/09/2018	06:25 PM	First Draw	ND
31045131022014	03/10/2018	07:28 AM	ODONN-37AAA	1st Floor - Gym - Kitchen - New Drinking Spigot	KS - Kitchen Sink	03/09/2018	06:25 PM	First Draw	ND
31045131022014	03/10/2018	07:28 AM	ODONN-37BRT	1st Floor - Gym - Kitchen	KS - Kitchen Sink	03/09/2018	06:25 PM	Flush	ND
31045131022014	03/10/2018	07:18 AM	ODONN-38ART	1st Floor - Room 124A - Nurse's Office Bathroom	S - Sink	03/09/2018	06:25 PM	First Draw	7.47
31045131022014	03/10/2018	07:18 AM	ODONN-38BRT	1st Floor - Room 124A - Nurse's Office Bathroom	S - Sink	03/09/2018	06:25 PM	Flush	2.96

**APPENDIX B**  
**Laboratory Results and Chain of Custody Documentation**

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
Tel. (708) 544-3260 • Toll Free (800) 783-LABS  
Fax (708) 544-8587  
www.suburbanlabs.com

March 23, 2018

Olivia Reynhout  
Weaver Consultants Group  
1316 Bond St - Suite 108  
Naperville, IL 60563

**Workorder: 1803D23**

TEL: (630) 717-4848

FAX: (630) 717-4850

RE: O'Donnell Elementary School Re-Test 1640 Reckinger Road Aurora IL  
60505 Drinking Water Lead Analysis

Dear Olivia Reynhout:

Suburban Laboratories, Inc. received 9 sample(s) on 3/19/2018 for the analyses presented in the following report.

Customer has provided 250 mL volume sample bottles for all samples collected. Please note, all sample results that exceed 5.00 ug/L should be promptly reported to parents or guardians of all enrolled students. Results that are below 5.00 ug/L should be reported on the school website. Please refer to Public Act 099-0922 or the Illinois Department of Public Health for specific reporting requirements. Suburban Laboratories will forward all results to the IDPH within seven (7) business days from the date of this report.

This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc. If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Pat Rodriguez  
Project Manager  
708-544-3260 ext 214  
pat@suburbanlabs.com



# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
Tel. (708) 544-3260 • Toll Free (800) 783-LABS  
Fax (708) 544-8587  
www.suburbanlabs.com

**Client ID:** Weaver Consultants Group

**Report Date:** March 23, 2018

**Project Name:** O'Donnell Elementary School Re-Test 1640 Reckinger R

**Workorder:** 1803D23

**Analyte:** Lead

**Method:** EPA 200.8

**Matrix:** Drinking Water

Sample ID	Client Sample ID	Result	MRL	Units	Date & Time Water System Last Used	Date Collected	Date Analyzed
1803D23-001A	ODONN-32ART~1st Floor - Room 102~First Draw	ND	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-002A	ODONN-32BRT~1st Floor - Room 102~Flush	ND	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-003A	ODONN-35ART~1st Floor - Room 101~First Draw	86.7	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-004A	ODONN-35BRT~1st Floor - Room 101~Flush	4.63	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-005A	ODONN-37ART~1st Floor - Gym - Kitchen~First Draw	ND	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-006A	ODONN-37AA~1st Floor - Gym - Kitchen - New Drinking Spigot~First Draw	ND	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-007A	ODONN-37BRT~1st Floor - Gym - Kitchen~Flush	ND	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-008A	ODONN-38ART~1st Floor - Room 124A - Nurse's Office Bathroom~First Draw	7.47	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018
1803D23-009A	ODONN-38BRT~1st Floor - Room 124A - Nurse's Office Bathroom~Flush	2.96	2.00	µg/L	03/09/2018 18:25	3/10/2018	3/22/2018

1803D23 1A-9A

FIELD DATA FORM

School/Facility Name  
 O'Donnell Elementary School - Re-Test  
 ISBE ID: (ex:01-001-0001-01-00001)  
 310451310222014

Address  
 1640 Reckinger Road  
 Aurora, IL 60505

Sample Collector Name(s)  
 O. Reynhout

MMDDYY      HH24MM

Water system last used Date: 03092018      Time: 18:25

All samples must be collected in unpreserved 250 ml plastic bottles

	Bldg. ID	Bldg. Desc	Sample ID#	Sample Loc. Desc	Collection Date MMDDYYYY	Collection Time HH24MM	Fixture Type	Sample Type	Sample Vol.	Notes
Ex1:	0001	Main Building	01	1st Floor Classroom	02232017	800	O - Other	First Draw	250	Description if "Other" is selected
Ex2:	0001	Main Building	01A	1st Floor Classroom	02232017	800	S - Sink	Flush	250	
1	0001	School	DONN-32AF	1st Floor - Room 102	03102018	7:24	S - Sink	First Draw	250	
2	0001	School	DONN-32BF	1st Floor - Room 102	03102018	7:24	S - Sink	Flush	250	
3	0001	School	DONN-35AF	1st Floor - Room 101	03102018	7:21	S - Sink	First Draw	250	
4	0001	School	DONN-35BF	1st Floor - Room 101	03102018	7:21	S - Sink	Flush	250	
5	0001	School	DONN-37AF	1st Floor - Gym - Kitchen	03102018	7:28	KS - Kitchen Sink	First Draw	250	
6	0001	School	DONN-37BF	Gym - Kitchen - New Dri	03102018	7:28	KS - Kitchen Sink	First Draw	250	
7	0001	School	DONN-37BF	1st Floor - Gym - Kitchen	03102018	7:28	KS - Kitchen Sink	Flush	250	
8	0001	School	DONN-38AF	Room 124A - Nurse's Offi	03102018	7:18	S - Sink	First Draw	250	
9	0001	School	DONN-38BF	Room 124A - Nurse's Offi	03102018	7:18	S - Sink	Flush	250	
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