

## The Lotis Engineering Group, P.C.

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6465 Transit Road – Suite 23  
East Amherst, New York 14051-2232  
716.276.8707

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March 15, 2019

Michael Bryniarski  
Lancaster Central School District  
177 Central Avenue  
Lancaster, New York 14086

Re: Lead Testing in School Drinking Water

Carousel Academy  
149 Central Avenue  
Lancaster, New York 14086

And

Como Park Elementary School  
1985 Como Park Blvd,  
Lancaster, NY 14086

Dear: Mr. Bryniarski

On September 6, 2016, Governor Andrew M. Cuomo signed legislation (S.8158/A.10740) mandating that public schools in New York State test potable water for lead contamination. The New York State Department of Health (NYSDOH) also issued emergency regulations pursuant to the new legislation (NYCRR Title X, Subpart 67-4).

In accordance with the new law and regulations, Lancaster Central School District (District) contracted The Lotis Engineering Group, P.C. (Lotis), to complete water testing in all District buildings. This submission summarizes the analytical results of sampling completed on February 6 and 13, 2019 at Carousel Academy (Central Avenue) and Como Park Elementary.

Maintenance closets and showers are not required to be tested under the new state mandates and were not included under this scope of work. Per the emergency regulations issued by the NYSDOH, first-draw samples were collected from cold water outlets after water lay motionless in the pipes for a minimum of 8 hours, but not more than 18 hours. The school district was responsible for flushing outlets at least 8 hours prior to sample collection. Lotis was notified by the school district that flushing was completed over 8 hours prior to sampling. However, this could not be independently verified by Lotis.

Samples were collected by placing a sterile container under each outlet and turning on the water source, allowing Lotis to collect a first-draw cold water sample. Samples were collected in clean 250 mL containers containing the appropriate nitric acid preservative, as provided by the testing laboratory. Samples were then delivered to Microbac Laboratories (a certified Environmental Laboratory Approved Program) following standard chain of custody protocols.

A total of fourteen outlets were sampled inside Carousel Academy and a total of nine samples were sampled inside the Como Park Elementary School during the re-sampling event.

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At Carousel Academy, one sample exceeded the 15 parts per billion (ppb) action level set forth by the NYSDOH. A summary of these samples is included in the following table:

Table 2 – Samples Exceeding 15 ppb

Sample ID	Location Details	Results (ppb)
17-CAE-113-Bubbler	Room 113- Bubbler	104

No samples at the Como Park Elementary School exceeded the 15 parts per billion (ppb) action level set forth by the NYSDOH.

Included in this submission are the complete laboratory analytical reports, chain of custody logs and photos of sample locations that exceeded the action levels.

In accordance with the new legislation, use of the aforementioned outlet is prohibited until a lead remediation plan is implemented and new testing demonstrates that the resulting lead levels are below 15 ppb. Alternative water supplies may be necessary in impacted areas. The legislation requires that Lancaster Central School District provide these results to the NYSDOH within one business day of receipt. Further, notification to building staff, all persons in parental relation to students, the local health department and the State Education Department is required within 10 business days of receipt of these results. These results and any associated remedial plans must be posted on the District's website within six weeks of receipt and all records must be retained by the District for at least 10 years.

The NYSDOH recommends reviewing "3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance" published by the United States Environmental Protection Agency (USEPA) to assist schools in assessing an appropriate remediation plan. A copy of this publication can be reviewed through the following hyperlink [3Ts for Reducing Lead in Drinking Water in Schools](#).

Lotis is available at your convenience to discuss this issue further.

Sincerely,



Kelly Reidy  
Environmental Scientist



David N. Robinson, P.E.  
President/CEO

## Laboratory Analytical Results



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

19B0845

The Lotis Engineering Group, P.C.

Project Name: CAE & CPE Lead

Kelly Reidy  
6465 Transit Road - Suite 23  
East Amherst, NY 14051-2232

Project / PO Number: N/A  
Received: 02/15/2019  
Reported: 02/22/2019

Analytical Testing Parameters

Client Sample ID: 11-CAE-130-S1  
Sample Matrix: Aqueous  
Lab Sample ID: 19B0845-01

Collected By: Kelly Reidy-Kaczmarek  
Collection Date: 02/06/2019 6:35

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.45	1.00	µg/L			02/21/19 1211	BTM

Client Sample ID: 14-CAE-138-S1  
Sample Matrix: Aqueous  
Lab Sample ID: 19B0845-02

Collected By: Kelly Reidy-Kaczmarek  
Collection Date: 02/06/2019 6:37

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	3.88	1.00	µg/L			02/21/19 1215	BTM

Client Sample ID: 15-CAE-139-S1  
Sample Matrix: Aqueous  
Lab Sample ID: 19B0845-03

Collected By: Kelly Reidy-Kaczmarek  
Collection Date: 02/06/2019 6:39

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	<1.00	1.00	µg/L			02/21/19 1220	BTM

Client Sample ID: 16-CAE-140-S1  
Sample Matrix: Aqueous  
Lab Sample ID: 19B0845-04

Collected By: Kelly Reidy-Kaczmarek  
Collection Date: 02/06/2019 6:41

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	<1.00	1.00	µg/L			02/21/19 1224	BTM

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19B0845

Client Sample ID:	17-CAE-113-Bubbler	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/06/2019 6:43
Lab Sample ID:	19B0845-05		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	104	1.00	µg/L			02/21/19 1229	BTM

Client Sample ID:	4-CAE-124-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:30
Lab Sample ID:	19B0845-06		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.75	1.00	µg/L			02/21/19 1233	BTM

Client Sample ID:	5-CAE-125-BR-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:31
Lab Sample ID:	19B0845-07		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.49	1.00	µg/L			02/21/19 1238	BTM

Client Sample ID:	6-CAE-126-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:32
Lab Sample ID:	19B0845-08		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	<1.00	1.00	µg/L			02/21/19 1242	BTM

Client Sample ID:	7-CAE-127-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:33
Lab Sample ID:	19B0845-09		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	<1.00	1.00	µg/L			02/21/19 1304	BTM

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19B0845

Client Sample ID:	10-CAE-128-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:34
Lab Sample ID:	19B0845-10		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	8.33	1.00	µg/L			02/21/19 1309	BTM

Client Sample ID:	8-CAE-128-BR1-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:35
Lab Sample ID:	19B0845-11		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	2.82	1.00	µg/L			02/21/19 1313	BTM

Client Sample ID:	9-CAE-128-BR2-S2	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:35
Lab Sample ID:	19B0845-12		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	2.31	1.00	µg/L			02/21/19 1318	BTM

Client Sample ID:	12-CAE-WBR-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:37
Lab Sample ID:	19B0845-13		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.53	1.00	µg/L			02/21/19 1322	BTM

Client Sample ID:	13-CAE-WBR-S2	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 6:37
Lab Sample ID:	19B0845-14		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	<1.00	1.00	µg/L			02/21/19 1327	BTM



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Client Sample ID:	2-CPE-114-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:10
Lab Sample ID:	19B0845-15		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.42	1.00	µg/L			02/21/19 1331	BTM

Client Sample ID:	5-CPE-227-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:11
Lab Sample ID:	19B0845-16		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.60	1.00	µg/L			02/21/19 1336	BTM

Client Sample ID:	6-CPE-226-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:12
Lab Sample ID:	19B0845-17		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.53	1.00	µg/L			02/21/19 1358	BTM

Client Sample ID:	7-CPE-225-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:13
Lab Sample ID:	19B0845-18		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.51	1.00	µg/L			02/21/19 1402	BTM

Client Sample ID:	8-CPE-224-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:14
Lab Sample ID:	19B0845-19		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.99	1.00	µg/L			02/21/19 1407	BTM

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Client Sample ID:	11-CPE-216-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:15
Lab Sample ID:	19B0845-20		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	1.39	1.00	µg/L			02/21/19 1411	BTM

Client Sample ID:	12-CPE-214-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:05
Lab Sample ID:	19B0845-21		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	3.19	1.00	µg/L			02/21/19 1416	BTM

Client Sample ID:	13-CPE-215-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:06
Lab Sample ID:	19B0845-22		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	3.24	1.00	µg/L			02/21/19 1420	BTM

Client Sample ID:	14-CPE-FBR-S1	Collected By:	Kelly Reidy-Kaczmarek
Sample Matrix:	Aqueous	Collection Date:	02/13/2019 7:16
Lab Sample ID:	19B0845-23		

Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7 Rev 4.4/EPA 200.8 Rev 5.4							
Lead	2.63	1.00	µg/L			02/21/19 1425	BTM

Definitions

µg/L: micrograms per liter  
RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: °C

Comments

Samples preserved at lab



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CERTIFICATE OF ANALYSIS

19B0845

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc. - Chicagoland  
12006

New York State Department of Health (m)

Report Comments

*Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.*

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.*

Reviewed and Approved By:

stationonly For Karen Ziolkowski  
Senior Project Manager  
02/22/2019 15:07

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## **Chain of Custody Log**

19B0845

SampleID	Matrix	SampleName	SampleAlias	Sampled	SampledBy
1	Aqueous	11-CAE-130-S1		2/6/2019 06:35	Kelly Reidy-Kaczmarek
2	Aqueous	14-CAE-138-S1		2/6/2019 06:37	Kelly Reidy-Kaczmarek
3	Aqueous	15-CAE-139-S1		2/6/2019 06:39	Kelly Reidy-Kaczmarek
4	Aqueous	16-CAE-140-S1		2/6/2019 06:41	Kelly Reidy-Kaczmarek
5	Aqueous	17-CAE-113-Bubbler		2/6/2019 06:43	Kelly Reidy-Kaczmarek
6	Aqueous	4-CAE-124-S1		2/13/2019 06:30	Kelly Reidy-Kaczmarek
7	Aqueous	5-CAE-125-BR-S1		2/13/2019 06:31	Kelly Reidy-Kaczmarek
8	Aqueous	6-CAE-126-S1		2/13/2019 06:32	Kelly Reidy-Kaczmarek
9	Aqueous	7-CAE-127-S1		2/13/2019 06:33	Kelly Reidy-Kaczmarek
10	Aqueous	10-CAE-128-S1		2/13/2019 06:34	Kelly Reidy-Kaczmarek
11	Aqueous	8-CAE-128-BR1-S1		2/13/2019 06:35	Kelly Reidy-Kaczmarek
12	Aqueous	9-CAE-128-BR2-S2		2/13/2019 06:35	Kelly Reidy-Kaczmarek
13	Aqueous	12-CAE-WBR-S1		2/13/2019 06:37	Kelly Reidy-Kaczmarek
14	Aqueous	13-CAE-WBR-S2		2/13/2019 06:37	Kelly Reidy-Kaczmarek
15	Aqueous	2-CPE-114-S1		2/13/2019 07:10	Kelly Reidy-Kaczmarek
16	Aqueous	5-CPE-227-S1		2/13/2019 07:11	Kelly Reidy-Kaczmarek
17	Aqueous	6-CPE-226-S1		2/13/2019 07:12	Kelly Reidy-Kaczmarek
18	Aqueous	7-CPE-225-S1		2/13/2019 07:13	Kelly Reidy-Kaczmarek
19	Aqueous	8-CPE-224-S1		2/13/2019 07:14	Kelly Reidy-Kaczmarek
20	Aqueous	11-CPE-216-S1		2/13/2019 07:15	Kelly Reidy-Kaczmarek
21	Aqueous	12-CPE-214-S1		2/13/2019 07:05	Kelly Reidy-Kaczmarek
22	Aqueous	13-CPE-215-S1		2/13/2019 07:06	Kelly Reidy-Kaczmarek
23	Aqueous	14-CPE-FBR-S1		2/13/2019 07:16	Kelly Reidy-Kaczmarek

9B0845 Karen Ziolkowski  
The Lotis Engineering Group, P.C. - East Amherst N  
JW Lead  
12/15/2019



*[Signature]*

2/13/19  
@ 3:54pm

Rec Lab: Nicol Lewat

2-15-19  
@ 1545

NI -

presented @ Lab on 2-15-19  
@ 1650  
UP Postal Service

