



BEDFORD CENTRAL SCHOOL DISTRICT  
FOX LANE CAMPUS  
P.O. BOX 180  
MOUNT KISCO, NY 10549

## LEAD WATER TESTING

For

Pound Ridge Elementary School  
7 Pound Ridge Road  
Pound Ridge, NY 10576

Date of Assessment: March 23, 2017

Date of Report: March 31, 2017

Completed By: Justin Joe, PhD, CSP  
Industrial Hygienist / Building Inspector  
BNF Consulting, Inc.  
152 Route 202, #404  
Lincolndale, NY 10540  
[bnfjustin@gmail.com](mailto:bnfjustin@gmail.com)

**EXECUTIVE SUMMARY**

On March 23, 2017, the 2<sup>nd</sup> lead water retesting was completed for Pound Ridge Elementary School, a building of the Bedford Central School District (BCSD), located at 7 Pound Ridge Road, Pound Ridge, NY 10576. This clearance testing for lead in water was performed after repair of fixtures, which exceeded the NYS lead action level from the initial testing on October 20, 2016, and then the 1<sup>st</sup> retest was performed on February 11, 2017. Primarily assisting in the completion of this study was Mr. Robert Gimigliano, Director of Buildings and Grounds, and the maintenance staff at Pound Ridge Elementary School.

The purpose of this survey is to comply to 10 NYCRR SUBPART 67-4: Lead Testing in School Drinking Water. This subpart requires all school districts and boards of cooperative education services, including those already classified as a public water system under 10 NYCRR Subpart 5-1, to test portable water for lead contamination and to develop and implement a lead remediation plan when applicable. Action Level used in the Subpart means 15 micrograms per liter ( $\mu\text{g/L}$ ) or parts per billion (ppb). Exceedance of the action level requires a response to implement a lead remediation plan.

First-draw water samples were collected from all available water outlets including faucets, sinks and water fountains in and around the building. These areas included conference rooms, restrooms, hallways, the kitchen, custodial closets, the boiler room and the exterior. The sampled water was motionless in the pipes for a minimum of 8 hours, but not more than 18 hours before the sample collection according to the guideline from the Subpart. The first-draw samples were collected from a cold water outlet before any water was used. The samples were sent to Phoenix Environmental Laboratories, Inc., which is approved to perform lead analyses by the Department's Environmental Laboratory Approval Program (ELAP#: 11715).

Lab results indicate that:

- 7 out of 10 water samples were above the action level.
- No water fountains or kitchen sinks were above the action level.
- The following water outlets are listed as being above the action level:
  1. Sink in Rm 5
  2. Sink in Rm 48
  3. Sink in Rm 49
  4. Sink in Rm 50
  5. Sink in Rm 51
  6. Sink in Rm 52
  7. Sink in Rm 58

## RECOMMENDATIONS

The following is recommendations from this survey.

- 2017-03-01 Install carbon filters to reduce the lead content from the water outlet fixtures tested above the action level, or the allowable limits.
- 2017-03-02 Check for plumbing work. If copper pipes are joined with lead solder that has been installed, notify a qualified plumber to replace the lead solder with lead-free solder. Lead solder looks dull gray and when scratched with a key, looks shiny.
- 2017-03-03 Check type of piping used to connect to water main. Determine whether or not the service line that connects the building to the water line is made of lead.

## CONCLUSION

This survey revealed that most of the lead testing from water source fixtures indicated low or non-detectable exposures. However, 7 out of 10 samples were above the Action Level, 15 micrograms per liter ( $\mu\text{g/L}$ ) or parts per billion (ppb), listed in the report. No water fountains or kitchen sinks were above the action level.

The recommendations in this report are intended to achieve the goal of a safer and more healthful environment. If the recommendations are completed, future health issues should be prevented.

If there are any questions regarding the contents of this report or further assistance is needed for recommendation completion, please feel free to contact Dr. Justin Joe, who can be reached via the following:

Justin H. Joe, PhD, CSP  
BNF Consulting, Inc.  
152 Route 202, #404  
Lincolndale, NY 10540  
[bnfjustin@gmail.com](mailto:bnfjustin@gmail.com)

A closing Thank You is extended to all who assisted or participated in completion of this Survey.

The information, suggestions and recommendations contained herein are for general informational purposes only. This information has been compiled from sources believed to be reliable. No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This information should not be construed as business, risk management, or legal advice or legal opinion.

APPENDIX A

LEAD WATER TESTING LAB RESULTS



Tuesday, March 28, 2017

Attn: Justin Joe  
BNF Consulting  
152 Route 202 #404  
Lincolndale, NY 10540-0404

Project ID: BCSD  
Sample ID#s: BX92585 - BX92594

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis/Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

## Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

## Date

03/23/17  
 03/23/17

## Time

7:17  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92585

Project ID: BCSD  
 Client ID: PRES-01

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.162	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected  
 BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)  
 AL = Action Level MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

### Comments:

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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**Phyllis Shiller, Laboratory Director**

**March 28, 2017**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:18  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92586

Project ID: BCSD  
 Client ID: PRES-02

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0136	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
Total Metal Digestion	Completed							03/24/17	VM/AG/BI	E200.8

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:19  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92587

Project ID: BCSD  
 Client ID: PRES-03

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0119	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
Total Metal Digestion	Completed							03/24/17	VM/AG/BI	E200.8

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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**March 28, 2017**

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:20  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92588

Project ID: BCSD  
 Client ID: PRES-04

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0146	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
Total Metal Digestion	Completed							03/24/17	VM/AG/BI	E200.8

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:21  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92589

Project ID: BCSD  
 Client ID: PRES-05

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0348	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

## Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

## Date

03/23/17  
 03/23/17

## Time

7:22  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92590

Project ID: BCSD  
 Client ID: PRES-06

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0253	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

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Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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**March 28, 2017**

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:25  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92591

Project ID: BCSD  
 Client ID: PRES-07

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0191	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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**March 28, 2017**

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:26  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92592

Project ID: BCSD  
 Client ID: PRES-08

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0165	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected  
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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

## Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

## Date

03/23/17  
 03/23/17

## Time

7:27  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92593

Project ID: BCSD  
 Client ID: PRES-09

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0216	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

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# Analysis Report

March 28, 2017

FOR: Attn: Justin Joe  
 BNF Consulting  
 152 Route 202 #404  
 Lincolndale, NY 10540-0404

Sample Information

Matrix: DRINKING WATER  
 Location Code: BNFCNSLT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

03/23/17  
 03/23/17

Time

7:28  
 16:42

## Laboratory Data

SDG ID: GBX92585  
 Phoenix ID: BX92594

Project ID: BCSD  
 Client ID: PRES-10

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	0.0175	0.0005	1	mg/L	0.015			03/27/17	LK	200.8 5.4
*** Lead exceeds Action Level of 0.015 ***										
Total Metal Digestion	Completed							03/24/17	VM/AG/BIE200.8	

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
 This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**March 28, 2017**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
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 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 28, 2017

## QA/QC Data

SDG I.D.: GBX92585

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 380404 (mg/L), QC Sample No: BX92580 (BX92585, BX92586, BX92587, BX92588, BX92589)

### ICP MS Metals - Aqueous

Lead	BRL	0.001	0.0452	0.044	2.70	99.0			76.8			85 - 115	20
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Comment:

Additional: LCS acceptance range is 85-115% MS acceptance range 70-130%.

QA/QC Batch 380404A (mg/L), QC Sample No: BX92590 (BX92590, BX92591, BX92592, BX92593, BX92594)

### ICP MS Metals - Aqueous

Lead	BRL	0.001				99.0			83.6			85 - 115	20
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Comment:

This batch does not include a duplicate.

Additional: LCS acceptance range is 85-115% MS acceptance range 70-130%.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 March 28, 2017



Tuesday, March 28, 2017

Criteria: None

State: NY

## Sample Criteria Exceedances Report

GBX92585 - BNFCNSLT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BX92585	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.162	0.0005	0.015	0.001	mg/L
BX92585	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.162	0.0005	0.015	0.015	mg/L
BX92589	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0348	0.0005	0.015	0.001	mg/L
BX92589	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0348	0.0005	0.015	0.015	mg/L
BX92590	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0253	0.0005	0.015	0.001	mg/L
BX92590	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0253	0.0005	0.015	0.015	mg/L
BX92591	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0191	0.0005	0.015	0.001	mg/L
BX92591	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0191	0.0005	0.015	0.015	mg/L
BX92592	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0165	0.0005	0.015	0.001	mg/L
BX92592	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0165	0.0005	0.015	0.015	mg/L
BX92593	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0216	0.0005	0.015	0.001	mg/L
BX92593	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0216	0.0005	0.015	0.015	mg/L
BX92594	PB-DW-MS	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0175	0.0005	0.015	0.001	mg/L
BX92594	PB-DW-MS	Lead	NY / NY Residential DW / Lead & Copper Als	0.0175	0.0005	0.015	0.015	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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# NY Temperature Narration

March 28, 2017

SDG I.D.: GBX92585

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The samples in this delivery group were received at 3°C.  
(Note acceptance criteria is above freezing up to 6°C)

300k  
1P

## BCSD Lead Water Sampling COC

NO	Flushed at		Drew at		Location	Remark
	Date	Time	Date	Time		
PRES - 01	3/22	2200	3/23	<del>0735</del> 0710	See the floor plan	Sink in Rm 5 92585
PRES - 02	3/22	2200	3/23	<del>0736</del> 0718	See the floor plan	Sink in Rm 15 92586
PRES - 03	3/22	2200	3/23	<del>0737</del> 0710	See the floor plan	Sink in Rm 16 92587
PRES - 04	3/22	2200	3/23	<del>0738</del> 0720	See the floor plan	Sink in Rm 47 92588
PRES - 05	3/22	2200	3/23	<del>0739</del> 0721	See the floor plan	Sink in Rm 48 92589
PRES - 06	3/22	2200	3/23	<del>0740</del> 0722	See the floor plan	Sink in Rm 49 92590
PRES - 07	3/22	2200	3/23	<del>0741</del> 0725	See the floor plan	Sink in Rm 50 92591
PRES - 08	3/22	2200	3/23	<del>0742</del> 0726	See the floor plan	Sink in Rm 51 92592
PRES - 09	3/22	2200	3/23	<del>0743</del> 0729	See the floor plan	Sink in Rm 52 92593
PRES - 10	3/22	2200	3/23	<del>0744</del> 0728	See the floor plan	Sink in Rm 58 92594
Total 10 Samples						

Joe [Signature]  
B [Signature]

3/23/17 12:55  
BNF Consulting, Inc

B [Signature] 3-23-17 15:05  
3/23/17  
Unrecorded Plev 16:42

