

80 Lupes Drive  
Stratford, CT 06615



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**Client:** Mr. Ryan Ebenhak  
Hygenix Inc  
49 Woodside St  
Stamford, CT 06902

# Analytical Report

## CET# 7040244

Report Date: April 14, 2017  
Project: Lead  
Project Number: Darien High, Darien

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199

CET #: 7040244

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**SAMPLE SUMMARY**

The sample(s) were received at 14.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
HS K1	7040244-01	Drinking Water	4/12/2017 6:30	04/12/2017
HS K2	7040244-02	Drinking Water	4/12/2017 6:30	04/12/2017
HS B122 F1	7040244-03	Drinking Water	4/12/2017 6:30	04/12/2017
HS B122 F2	7040244-04	Drinking Water	4/12/2017 6:30	04/12/2017
HS Cafe F1	7040244-05	Drinking Water	4/12/2017 6:30	04/12/2017
HS Cafe F2	7040244-06	Drinking Water	4/12/2017 6:30	04/12/2017

**Analyte: Total Lead [EPA 200.8]**

**Analyst: SS**

**Matrix: Drinking Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7040244-01	HS K1	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 14:50	
7040244-02	HS K2	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 15:18	
7040244-03	HS B122 F1	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 15:22	
7040244-04	HS B122 F2	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 15:26	
7040244-05	HS Cafe F1	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 15:30	
7040244-06	HS Cafe F2	ND	0.0010	mg/L	1	B7D1324	04/13/2017	04/13/2017 15:34	

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### QUALITY CONTROL SECTION

#### Batch B7D1324 - EPA 200.8

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B7D1324-BLK1)</b>									Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	ND	0.0010							
<b>Blank (B7D1324-BLK2)</b>									Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	ND	0.0010							
<b>LCS (B7D1324-BS1)</b>									Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	0.0988	0.0010	0.100		98.8	85 - 115			
<b>LCS (B7D1324-BS2)</b>									Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	0.0980	0.0010	0.100		98.0	85 - 115			
<b>Duplicate (B7D1324-DUP1)</b>		<b>Source: 7040244-01</b>							Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	ND	0.0010		ND				20	
<b>Matrix Spike (B7D1324-MS1)</b>		<b>Source: 7040244-01</b>							Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	0.101	0.0010	0.100	ND	101	75 - 125			
<b>Matrix Spike Dup (B7D1324-MSD1)</b>		<b>Source: 7040244-01</b>							Prepared: 4/13/2017 Analyzed: 4/13/2017
Lead	0.102	0.0010	0.100	ND	102	75 - 125	0.913	20	

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### Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

#### Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199

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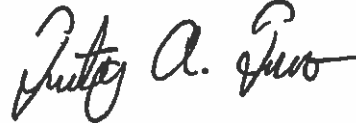
Project: Lead

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All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA 200.8 in Drinking Water</i>	
Lead	CT,MA,RI,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2017
NY	New York Certification (NELAC)	11982	04/01/2018
RI	Rhode Island Certification	LAO 00227	09/30/2018



Environmental Consultants  
And Laboratory Services

(203) 324-2222  
Fax (203) 324-3876



49 Woodside Street Stamford, CT 06902

April 19, 2017

Town of Darien  
Attn. Michael Lynch

RE: Lead in water sampling  
Darien High School – Darien, CT

To Whom It May Concern:

On April 12, 2017, I collected water samples from a kitchen sink, water fountain adjacent to the cafeteria, and the water fountain adjacent Room B122 at the above mentioned site.

Water samples were collected during the early in the morning during the April vacation to get the "first draw". After a minute flush the 'second draw' was collected from each location. The water samples were sent to Complete Environmental Testing in Stratford, CT to be analyzed for lead by EPA Method 200.8 / EPA 3005A. The results are summarized in the following table:

Sample Location	1 <sup>st</sup> Draw mg/L	2 <sup>nd</sup> Draw mg/L	EPA Standard mg/L
Kitchen Sink	< 0.001	< 0.001	0.015
Water Fountain Adj. to Cafeteria	< 0.001	< 0.001	0.015
Water Fountain Room B122	< 0.001	< 0.001	0.015

All samples were below the EPA Action level for lead in tap water of 15 ppb (0.015 mg/L).

More information about lead in water can be found at the following websites:

<https://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>  
[https://www.epa.gov/sites/production/files/2015-09/documents/toolkit\\_leadschools\\_guide\\_3ts\\_leadschools.pdf](https://www.epa.gov/sites/production/files/2015-09/documents/toolkit_leadschools_guide_3ts_leadschools.pdf)

If you have any questions, comments, or concerns please contact me at [rebenhack@hygenix.com](mailto:rebenhack@hygenix.com) or (203) 324-2222. Thank you.

Sincerely,

*Ryan Ebenhack*

Ryan Ebenhack  
Hygenix, Inc.

CT Lead Inspector License # 002167



Attachments – Lead in water sampling laboratory reports