



DRINKING WATER SAMPLING REPORT

The Queen City Academy Charter School

815 West 7th Street
Plainfield, NJ 07063

April 13, 2016
Partner Project No. 02758102000



Prepared for

The Queen City Academy Charter School

815 West 7th Street
Plainfield, New Jersey 07063

April 13, 2016

Ms. Charlene F. Jones
The Queen City Academy Charter School
815 West 7th Street
Plainfield, New Jersey 07063

Subject: Drinking Water Sampling Report
The Queen City Academy Charter School
815 West 7th Street
Partner Project 02758102000


Dear Ms. Jones:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Drinking Water Sampling* conducted at the abovementioned address (the "subject property"). This sampling event was performed in general conformance with the scope and limitations as detailed in our fee proposal.

This inspection included a site reconnaissance as well as sampling and analysis. An assessment was made, conclusions stated, and recommendations outlined, as required.

We appreciate the opportunity to provide environmental services to the Queen City Academy Charter School. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (732) 380-1700 x1271.

Sincerely,



Matt Genna
Project Manager
Health and Safety Services



Douglas R. Lawson, Ph.D., CIH
Technical Director, Industrial Hygiene Services

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1.0 INTRODUCTION

1.1 Property Description

| | |
|-------------------------|---|
| Address: | 815 West 7 th Street, Plainfield, New Jersey |
| Nature of Use: | High School |
| Inspected By: | Liam Callahan |
| Assessment Date: | Thursday March 31, 2016 |

1.2 Purpose and Scope

The purpose of this drinking water sampling event was to sample and analyze drinking water for a determination of lead content.

1.3 Methodology

DRINKING WATER

Select drinking water samples were collected according to the United States Department of Environmental Protection (USEPA) "Testing Schools and Child Care Centers for Lead in the Drinking Water" as well as the Safe Drinking Water Act of 1974. This law requires the U. S. Environmental Protection Agency (EPA) to determine safe levels of chemicals in drinking water which do or may cause health problems. These non-enforceable levels, based solely on possible health risks and exposure, are called Maximum Contaminant Level Goals.

The MCLG for lead has been set at zero because EPA believes this level of protection would not cause potential health problems. Since lead contamination generally occurs from corrosion of onsite lead pipes, or lead-based solder on plumbing fittings and fixtures, it cannot be directly detected or removed by the water system. Instead, EPA is requiring water systems to control the corrosiveness of their water if the level of lead at the tap exceeds an Action Level.

The action level for lead has been set at 15 parts per billion (ppb). According to the EPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

These drinking water standards and the regulations for ensuring these standards are met are called National Primary Drinking Water Regulations. All public water supplies must abide by these regulations.

2.0 ANALYTICAL RESULTS

2.1 Visual Inspection

During the course of the site visit, Partner identified those sources of drinking water and selected several for sampling. Partner did not attempt to disassemble mechanical equipment, open plumbing pipe chases, or identify piping within wall voids.

2.2 Drinking Water Sample Results

A total of eight (8) drinking water samples were collected from The Queen City Academy Charter School. The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. Ideally, the water had not been used for the past 6-8 hours but Partner could not be certain that this was the case. Partner requested from the Client that all test locations be inactive for a minimum of 6 hours prior to testing. This "first draw" sample was collected to evaluate the lead content in the pipes that service the facility. Frequently, older buildings may have corroded pipes or solder joints that leach lead into the drinking water.

The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the subject building.

The samples were collected and sent to EMSL Laboratories in Cinnaminson, New Jersey, for analysis in accordance with EPA Method 200.8 for lead in drinking water. The results are listed in the following table.

Analytical Results

| Sample No. | Location | Description | Results (µg/L) |
|------------|-----------------------------|-------------|----------------|
| 1-1 | Hallway Water Fountain | First | ND |
| 1-2 | Hallway Water Fountain | Flush | ND |
| 2-1 | First Grade Water Fountain | First | ND |
| 2-2 | First Grade Water Fountain | Flush | ND |
| 3-1 | Second Grade Water Fountain | First | ND |
| 3-2 | Second Grade Water Fountain | Flush | ND |
| 4-1 | Gymnasium Water Fountain | First | ND |
| 4-2 | Gymnasium Water Fountain | Flush | ND |

*ND – indicates that the analyte was not detected at the reporting limit of the analytical method

The analytical results for lead in drinking water for all eight samples collected were below the EPA action level of 15ppb.

3.0 CONCLUSION

DRINKING WATER

Eight samples were collected from the Queen City Academy on Thursday March 31, 2016. The analytical results for lead in drinking water for all eight samples collected were below the EPA action level of 15ppb. At this point, Partner does not recommend any further actions be taken by the Queen City Academy Charter School as all samples taken were below the EPA action level. Partner does recommend annual sampling of lead in drinking water to determine that plumbing fixtures are not contaminating drinking water in the future.

4.0 LIMITATIONS

Partner subcontracted with EMSL who performed the lead analysis. No warranties expressed or implied, are made by Partner or its subcontractor EMSL, or their employees as to the use of any information, apparatus, product or process disclosed in this report. Every reasonable effort has been made to assure correctness.

State-of-the-art practices have been employed to perform this inspection. No demolition or product research was performed in attempts to reveal material compositions. The services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles/practices. These services are designed to provide an analytical tool to assist the client. Partner and its subcontractor EMSL and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to lead and/or lead contamination regardless of the actions taken by the inspection team or the client.

5.0 SIGNATURES OF PROFESSIONALS

Partner has performed a lead-in-drinking water inspection on the property at 815 West 7th Street, Plainfield, Union County, New Jersey in general conformance with the scope and limitations of the protocol stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

Prepared By:

Partner Engineering and Science, Inc.



Matt Genna
Project Manager
Health and Safety Services



Douglas R. Lawson, Ph.D., CIH
Technical Director
Industrial Hygiene Services

APPENDIX A: LABORATORY ANALYSIS AND CHAIN OF CUSTODY



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Liam Callahan
Partner Engineering & Science, Inc.
611 Industrial Way W.
Eatontown, NJ 07724

4/13/2016

Phone:

Fax: (732) 380-1701

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/1/2016. The results are tabulated on the attached data pages for the following client designated project:

Queen City Academy Lead in Drinking Water

The reference number for these samples is EMSL Order #011602112. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Phillip Worby, Chemistry Laboratory Manager



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

| | |
|-------------|-----------|
| EMSL Order: | 011602112 |
| CustomerID: | 32PRTN78G |
| CustomerPO: | |
| ProjectID: | |

Attn: **Liam Callahan**
Partner Engineering & Science, Inc.
611 Industrial Way W.
Eatontown, NJ 07724

Phone:
 Fax: (732) 380-1701
 Received: 04/01/16 9:30 AM

Project: **Queen City Academy Lead in Drinking Water****Analytical Results**

Client Sample Description 1-1 **Collected:** 3/31/2016 **Lab ID:** 0001

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 1-2 **Collected:** 3/31/2016 **Lab ID:** 0002

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 2-1 **Collected:** 3/31/2016 **Lab ID:** 0003

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 2-2 **Collected:** 3/31/2016 **Lab ID:** 0004

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 3-1 **Collected:** 3/31/2016 **Lab ID:** 0005

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 3-2 **Collected:** 3/31/2016 **Lab ID:** 0006

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Client Sample Description 4-1 **Collected:** 3/31/2016 **Lab ID:** 0007

| Method | Parameter | Result | RL | Units | Prep Date | Analyst | Analysis Date | Analyst |
|--------|-----------|--------|------|-------|-----------|---------|---------------|---------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

| | |
|-------------|-----------|
| EMSL Order: | 011602112 |
| CustomerID: | 32PRTN78G |
| CustomerPO: | |
| ProjectID: | |

Attn: **Liam Callahan**
Partner Engineering & Science, Inc.
611 Industrial Way W.
Eatontown, NJ 07724

Phone:
 Fax: (732) 380-1701
 Received: 04/01/16 9:30 AM

Project: **Queen City Academy Lead in Drinking Water****Analytical Results**

Client Sample Description 4-2 *Collected:* 3/31/2016 *Lab ID:* 0008

| <i>Method</i> | <i>Parameter</i> | <i>Result</i> | <i>RL</i> | <i>Units</i> | <i>Prep Date</i> | <i>Analyst</i> | <i>Analysis Date</i> | <i>Analyst</i> |
|---------------|------------------|---------------|-----------|--------------|------------------|----------------|----------------------|----------------|
| 200.8 | Lead | ND | 1.00 | µg/L | 4/11/2016 | KB | 4/12/2016 | BE |

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit

APPENDIX B: SAMPLE LOCATIONS



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS DIVISION

**Environmental Chemistry
Chain of Custody**

EMSL Order Number (Lab Use Only):

611602112

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

| Report To Contact Name: Liam Callahan & Matt Genoa & Brian Nemetz | | Bill To Company: Partner Engineering | | | | | | |
|--|----------------------------------|--|-----------------------------------|--------|---------------------------------|---------------------|--|------------------------|
| Company Name: Partner Engineering | | Attention To: Brian Nemetz | | | | | | |
| Street: 611 Industrial Way West | | Street: Same | | | | | | |
| City: Eatontown | State/Province: NJ | Zip/Postal Code: 07723 | State/Province: | | | | | |
| Phone: (732) 380-1700 | | Phone: | | | | | | |
| Project Name: Queen City Academy Lead in Drinking Water | | U.S. State where Samples Collected: NJ | | | | | | |
| Number of Samples in Shipment: 8 | Date of Shipment: 3/31/16 | Purchase Order: | | | | | | |
| Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | | Email Results To: lcallahan@partneresi.com, mgenoa@partneresi.com, bnemetz@partneresi.com | | | | | | |
| Standard Turnaround Time: <input type="checkbox"/> 2 Weeks <input type="checkbox"/> 4 Weeks <input checked="" type="checkbox"/> 1 Day | | The following TAT's are subject to lab approval: <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 4 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 6 Days <input type="checkbox"/> 7 Days <input type="checkbox"/> 8 Days <input type="checkbox"/> 9 Days <input type="checkbox"/> 10 Days | | | | | | |
| Failure to complete will hinder processing of samples | | | | | | | | |
| Client Sample ID | Comp | Grab | Date/Tim | Matrix | Preservative | List Test(s) Needed | | Comments |
| | | | | | | W=Water | S=Soil | |
| 1-1 through 40-2 | | | 3/31/16 | W | 2 | ✓ | | Lead in Drinking Water |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Released By (Signature) Li Ann | | | Date & Time 3/31/16 | | Received By CP Cassin | | Date & Time 3-31-16 9:35 | |
| Client Sample ID | | | Date & Time | | Received By | | Date & Time | |
| | | | 3/31/16 | | CP Cassin | | 3/31/16 9:35 AM | |
| | | | | | CP Cassin | | 4/1/16 09:30 | |

4°

Please indicate reporting requirements: Results Only Results and QC Reduced Deliverables Disk Deliverable Other

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Left message for Matt
EPA 800.8 4/7/16 JTA
Controlled Document - Environmental Chemistry COC - RA - 12/27/2011

Page 1 of 2 pages
Re: Math - 2 Jts ok 4/6
BY: [Signature] 0900
MAR 31 2016 WALTON

EMSL PISCATAWAY



EMSL ANALYTICAL INC.
LABORATORY PRODUCTS DIVISION

**Environmental Chemistry
Chain of Custody**

EMSL Order Number (Lab Use Only):

011602112

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

| Client Sample ID | Comp | Grab | Date/Time | Matrix W=Water S=Soil A=Air SL=Sludge O=Other | Preservative 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other | List Test(s) Needed | | | | | | Comments | |
|------------------|------|------|-----------|--|--|---------------------|--|--|--|--|--|----------|------------------------|
| | | | | | | | | | | | | | |
| 1-1 | | | 3/31/16 | W | 2 | EPA | | | | | | | Lead in Drinking Water |
| 1-2 | | | | | | 200.1 | | | | | | | |
| 2-1 | | | | | | | | | | | | | |
| 2-2 | | | | | | | | | | | | | |
| 3-1 | | | | | | | | | | | | | |
| 3-2 | | | | | | | | | | | | | |
| 4-1 | | | | | | | | | | | | | |
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MAR 31 2016
BY EMSL PISCATAWAY

Page 2 of 2 pages

APPENDIX C: CERTIFICATIONS

Extension of Reliance

This report has been compiled for the immediate and exclusive use of the party / parties that originally contracted Partner for its completion.

Any and all reliance on this report shall expire after the duration of six (6) months immediately following the time of its completion.

No portion of this report is to be relied upon or used in any way by any person, business, or entity that was not a party to the original agreement.

Any unauthorized reliance of this report is strictly prohibited by Partner and, therefore, not warranted in any way for accuracy or completeness.

If you would like to renew reliance on this report or have received it as a third party and wish to rely on any portion of it, please fill out the information below and return to Partner via fax (866-928-7418) or email (reliance@partneresi.com). One of our representatives will contact you to discuss details relating to release and payment options. Thank you.

Company Name:

Contact Name:

Telephone Number:

Email Address:

Subject Property
Address:

815 West 7th Street

Plainfield, New Jersey 07063

Partner Project
Number:

027581020000
