PERFORMANCE
Environmental Services, Inc.

30553 Wixom Road, Suite 500 ▪ Wixom, Michigan 48393 ▪ Voice: 248.926.3800 ▪ Fax: 248.926.3838
12330 Perry Highway, Suite 240 ▪ Wexford, PA 15090 ▪ Voice: 412.463.6576

# DRINKING WATER TESTING REPORT
## (COPPER AND LEAD)

**(Results of Testing Conducted on April 29, 2016)**

**PERFORMANCE ENVIRONMENTAL SERVICES**
**Project # 161313**

FOR

**Ms. Regan Hamilton**
**Director of Facilities**
**Cornerstone Charter Schools**
**P.O. Box 2000**
**Taylor, Michigan 48180**

AT

**Cornerstone Schools Association**
**6861 E. Nevada**
**Detroit, MI**

**Report Date: May 10, 2016**

# TABLE OF CONTENTS

## 1.0 SUMMARY OF FINDINGS

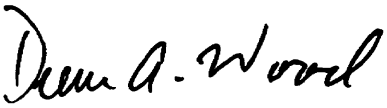
In accordance with your request, Performance Environmental Services, Inc. (*Performance*) conducted drinking water testing on April 29, 2016 at Cornerstone Schools Association located at 6861 E. Nevada in Detroit, Michigan. The purpose of the testing was to document the absence or presence of potential health hazards associated with the exposure of copper and lead in the drinking water. The study included the collection of representative drinking water samples.

The results of the drinking water testing do not indicate a need for response actions to reduce exposure at this time.

Enclosed, please find the Drinking Water Testing Report. If there are any questions or comments concerning this report or our recommendations, please do not hesitate to contact us.

Respectfully,

**PERFORMANCE ENVIRONMENTAL SERVICES, INC.**



Dennis A. Wood
Senior Project Manager

DAW:hr

## 2.0 BACKGROUND

In accordance with your request, Performance Environmental Services, Inc. (*Performance*) conducted drinking water testing for copper and lead at Cornerstone Schools Association located at 6861 E. Nevada in Detroit, Michigan. The purpose of the testing was to document the absence or presence of potential health hazards associated with copper and lead in the drinking water as described in the EPA document entitled "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance" for facilities not defined as a public water system who are required to adhere to the EPA Lead and Copper Rule (40 CFR Part 141 Subpart I). The study included the collection of representative drinking water samples. *Performance* conducted the drinking water testing on April 29, 2016.

## 3.0 ASSESSMENT METHODOLOGY

### 3.1 Drinking Water Testing

*Performance* implemented sampling methodologies as described in section 4 of the "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance" to collect drinking water samples for concentrations of copper and lead. The samples were collected first draw (stagnant sample) using laboratory provided 250 ml containers. The samples were maintained under a chain-of-custody record and submitted to a laboratory for analysis by Inductively Coupled Plasma – Mass Spectrometry (EPA method 200.8). The samples were analyzed by Brighton Analytical, L.L.C. located at 2105 Pless Drive, Brighton, MI 48116 (810)229-7575.

## 4.0 RESULTS

### 4.1 Drinking Water Analysis

Twenty-one (21) samples were collected for concentrations of copper and lead. The EPA Lead and Copper rule requires that copper concentrations not exceed an action level of 1.3 ppm (1,300 ppb) and lead concentrations not exceed an action level of 20 ppb. The results are as follows:

**Copper Results:**

| Sample ID | Location | Result (ppb) | EPA Action Level (ppb) |
|---|---|---|---|
| 6861-1 | North 1st floor drinking fountain by teacher's lounge | 120 | 1,300 |
| 6861-2 | South 1st floor drinking fountain by teacher's lounge | 130 | 1,300 |
| 6861-3 | Sink in recruiter office – 1st floor | 440 | 1,300 |
| 6861-4 | Sink in faculty lounge by room 120 – 1st floor | 250 | 1,300 |
| 6861-5 | East 1st floor drinking fountain by office 124 | 160 | 1,300 |
| 6861-6 | West 1st floor drinking fountain by office 124 | 150 | 1,300 |
| 6861-7 | Sink in teacher/parent lounge by gym – 1st floor | 110 | 1,300 |
| 6861-8 | North 1st floor drinking fountain by counseling department | 130 | 1,300 |
| 6861-9 | South 1st floor drinking fountain by counseling department | 120 | 1,300 |
| 6861-10 | Drinking fountain on floor 1R | 80 | 1,300 |

| Sample ID | Location | Result (ppb) | EPA Action Level (ppb) |
|---|---|---|---|
| 6861-11 | Sink by dishwasher in cafeteria on floor 1R | 80 | 1,300 |
| 6861-12 | Hand washing sink by dishwasher in cafeteria on floor 1R | 620 | 1,300 |
| 6861-13 | Sink across from stove in cafeteria on floor 1R | 50 | 1,300 |
| 6861-14 | Salad preparation sink in cafeteria on floor 1R | 350 | 1,300 |
| 6861-15 | Sink in teacher's lounge on floor 1R | 950 | 1,300 |
| 6861-16 | Kitchen sink in apartments on floor 1R | 360 | 1,300 |
| 6861-17 | 2nd floor drinking fountain | 190 | 1,300 |
| 6861-18 | Sink in floor 2R kitchen | 250 | 1,300 |
| 6861-19 | High school drinking fountain on floor 2R | 240 | 1,300 |
| 6861-20 | High school drinking fountain in basement | 440 | 1,300 |
| 6861-21 | Sink in receiving area in basement | 130 | 1,300 |

**Lead Results:**

| Sample ID | Location | Result (ppb) | EPA Action Level (ppb) |
|---|---|---|---|
| 6861-1 | North 1st floor drinking fountain by teacher's lounge | Not detected | 20 |
| 6861-2 | South 1st floor drinking fountain by teacher's lounge | Not detected | 20 |
| 6861-3 | Sink in recruiter office – 1st floor | Not detected | 20 |
| 6861-4 | Sink in faculty lounge by room 120 – 1st floor | Not detected | 20 |
| 6861-5 | East 1st floor drinking fountain by office 124 | Not detected | 20 |
| 6861-6 | West 1st floor drinking fountain by office 124 | Not detected | 20 |
| 6861-7 | Sink in teacher/parent lounge by gym – 1st floor | Not detected | 20 |
| 6861-8 | North 1st floor drinking fountain by counseling department | Not detected | 20 |
| 6861-9 | South 1st floor drinking fountain by counseling department | Not detected | 20 |
| 6861-10 | Drinking fountain on floor 1R | Not detected | 20 |
| 6861-11 | Sink by dishwasher in cafeteria on floor 1R | Not detected | 20 |
| 6861-12 | Hand washing sink by dishwasher in cafeteria on floor 1R | Not detected | 20 |
| 6861-13 | Sink across from stove in cafeteria on floor 1R | Not detected | 20 |
| 6861-14 | Salad preparation sink in cafeteria on floor 1R | 15 | 20 |

| Sample ID | Location | Result (ppb) | EPA Action Level (ppb) |
|---|---|---|---|
| 6861-15 | Sink in teacher's lounge on floor 1R | 8 | 20 |
| 6861-16 | Kitchen sink in apartments on floor 1R | Not detected | 20 |
| 6861-17 | 2nd floor drinking fountain | Not detected | 20 |
| 6861-18 | Sink in floor 2R kitchen | Not detected | 20 |
| 6861-19 | High school drinking fountain on floor 2R | Not detected | 20 |
| 6861-20 | High school drinking fountain in basement | Not detected | 20 |
| 6861-21 | Sink in receiving area in basement | Not detected | 20 |

## 5.0 BACKGROUND INFORMATION

### 5.1 Health Effects of Lead Exposure

Lead can cause serious health problems if too much enters your body from drinking water or other sources. Some facts about lead exposure include:

- Infants, young children and pregnant women are at greatest risk to lead exposure;
- Increased lead levels have been shown to cause damage to the brain and kidneys;
- Increased lead levels interfere with the production of red blood cells that carry oxygen to all parts of your body;
- Scientists have linked the effects of lead on the brain to lowered intelligence quotient (IQ) in children;
- Adults with kidney problems and high blood pressure can be affected by lower levels of lead more than healthy adults;
- Lead is stored in the bones and it can be released later in life; and,
- During pregnancy, the fetus can receive lead from the mother's bones which may affect brain development.

### 5.2 Health Effects of Copper Exposure

Excess copper exposure can cause stomach and intestinal distress, liver or kidney damage, and complications of Wilson's disease. In addition, children's bodies absorb more copper than the average adult because of their rapid development and higher metabolism.

## 6.0 LIMITATIONS

The results of our tests represent conditions only at the time sampling occurred; thus, this report should not be relied on to represent conditions at other locations, times, or dates. Our opinions are based upon findings and upon our professional expertise with no warranty or guarantee implied herein. This report is intended for the sole use of your firm and its assigned agents. *Performance* accepts no responsibility for interpretation of this report by others. Its content shall not be used or relied on by other parties without prior written authorization of *Performance.*

# APPENDIX

# ANALYTICAL RESULTS

**CONTENTS**

Brighton Analytical L.L.C.™
2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

May 09, 2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

Subject: CornerstoneSchools Assoc.6861 E. Nevada, Detroit
161313

Dear Mr. Carpenter :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/29/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of $20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 38812 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,
Brighton Analytical, L.L.C.

DEQ NELAP ACCREDITED TNI LABORATORY Certified WBENC Women's Business Enterprise

# Brighton Analytical, L.L.C.™

Email: bai-brighton@sbcglobal.net
2105 Pless Drive
Brighton, MI 48114
Phone: 810-229-7575
Fax: 810-229-8650

BA PROJECT #: 38812



**ABBREVIATIONS FOR MATRIX**
S = Solid
L = Liquid
DW = Drinking $H_2O$
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filter
T = Tube
M = Misc.

PROJECT NAME: Cornerstone Schools Association 6861 E. Nevada, Detroit, MI

PROJECT #: 16313

PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Sample collected by: Thomas W. Carpenter

REQUESTED TURNAROUND: (circle one)
Rush: 1 -3 business days (verify with lab & specify date needed)
1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost
Standard: 5 business days

If RUSH, approved by: _____

Analysis Requested/Method

| Brighton ID # | Sample Description | | Sample Coll. Date | Sample Coll. Time | Container Type & Quantity: VOA'S (PRES) Y N N/A | HDPE UNPRESERVED | HDPE $HNO_3$ | HDPE $H_2SO_4$ | HDPE NAOH | AMBER PRESERVED? | GLASS, NO PRESERVATIVE | STERILIZED BACTERIA | MEOH Preserved Y N | Sample Matrix | Copper and Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) 53 | 6861-1 | DF | 4-29 | 10:25 | | | X | | | | | | | DW | X |
| 2) 54 | 6861-2 | DF | | 10:27 | | | X | | | | | | | | X |
| 3) 55 | 6861-3 | Sink | | 10:28 | | | X | | | | | | | | X |
| 4) 56 | 6861-4 | Sink | | 10:29 | | | X | | | | | | | | X |
| 5) 57 | 6861-5 | DF | | 10:31 | | | X | | | | | | | | X |
| 6) 58 | 6861-6 | DF | | 10:32 | | | X | | | | | | | | X |
| 7) 59 | 6861-7 | Sink | | 10:34 | | | X | | | | | | | | X |
| 8) 60 | 6861-8 | DF | | 10:36 | | | X | | | | | | | | X |
| 9) 61 | 6861-9 | DF | | 10:38 | | | X | | | | | | | | X |
| 10) 62 | 6861-10 | DF | ↓ | 10:40 | | | X | | | | | | | | X |

COMPANY/MAILING ADDRESS:
Performance Environmental
30553 S. Wixom Rd.
Wixom, MI 48393
ATTN: Lab data
PHONE: 248-926-3800
FAX OR EMAIL:

Samples received within hold time? yes ☒ no ☐
Temperature of samples °C:
pHs verified in login? yes ☒ no ☐
Headspace/bubbles in VOA's? yes ☐ no ☐ n/a ☒
Sample containers and COC match? yes ☒ no ☐

BILLING ADDRESS (IF REQUIRED):

**Drinking $H_2O$:**
Fax to LCHD? yes ☐ no ☒
Chlorinated Water Supply? yes ☒ no ☐
AMT.: NA

MCL Failure: yes ☐ no ☐
Client Notified (date/time/initials): _____

**Special Instructions:**

***Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.***

| Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: | Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Thomas W. Carpenter | [signature] | 4-29-16 | 2:50 pm | 3 | | | | |
| 2 | | | | | 4 | | | | |

**Brighton Analytical, L.L.C.™**
Email: bai-brighton@sbcglobal.net
2105 Pless Drive
Brighton, MI 48114
Phone: 810-229-7575
Fax: 810-229-8650

BA PROJECT #: 39812

**ABBREVIATIONS FOR MATRIX**
S = Solid
L = Liquid
DW = Drinking $H_2O$
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filter
T = Tube
M = Misc.

PROJECT NAME: Cornerstone Schools Association 6861 E. Nevada, Detroit, MI
PROJECT #: 161313
PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Sample collected by: Thomas W. Carpenter

**REQUESTED TURNAROUND:** (circle one)
**Rush:** 1 -3 business days (verify with lab & specify date needed)
1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost
**Standard:** 5 business days

If RUSH, approved by: _____

Sample Coll.

| Brighton ID # | Sample Description | Date | Time | VOA'S (PRES) Y N N/A | HDPE UNPRESERVED | HDPE $HNO_3$ | HDPE $H_2SO_4$ | HDPE NAOH | AMBER PRESERVED? | GLASS, NO PRESERVATIVE | STERILIZED BACTERIA | MEOH Preserved Y N | Sample Matrix | Copper and Lead | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CPC. 1) 9663 | 6861-11 Sink | 4-29 | 10:45 | | | X | | | | | | | DW | X | | | | | | | |
| 2) 64 | 6861-12 | | 10:48 | | | X | | | | | | | | X | | | | | | | |
| 3) 65 | 6861-13 | | 10:50 | | | X | | | | | | | | X | | | | | | | |
| 4) 66 | 6861-14 | | 10:52 | | | X | | | | | | | | X | | | | | | | |
| 5) 67 | 6861-15 | | 10:54 | | | X | | | | | | | | X | | | | | | | |
| 6) 68 | 6861-16 | | 10:58 | | | X | | | | | | | | X | | | | | | | |
| 7) 69 | 6861-17 DF | | 10:59 | | | X | | | | | | | | X | | | | | | | |
| 8) 70 | 6861-18 Sink | | 11:02 | | | X | | | | | | | | X | | | | | | | |
| 9) 71 | 6861-19 DF | | 11:04 | | | X | | | | | | | | X | | | | | | | |
| 10) 72 | 6861-20 DF | | 11:24 | | | X | | | | | | | | X | | | | | | | |

**Special Instructions:**

**Analysis Requested/Method**

**COMPANY/MAILING ADDRESS:**
Performance Environmental
30553 S. Wixom Rd
Wixom, MI 48393
ATTN: Lab data
PHONE: 248-926-3800
FAX OR EMAIL:

Samples received within hold time? yes ☐ no ☐
Temperature of samples °C:
pHs verified in login? yes ☐ no ☐
Headspace/bubbles in VOA's? yes ☐ no ☐ n/a ☐
Sample containers and COC match? yes ☐ no ☐

**BILLING ADDRESS (IF REQUIRED):**

**Drinking $H_2O$:**
Fax to LCHD? yes ☐ no ☐
Chlorinated Water Supply? yes ☐ no ☐
AMT.: _____

MCL Failure: yes ☐ no ☐
Client Notified (date/time/initials): _____

***Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.***

| Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: | Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Thomas W. Carpenter | | 4-29-16 | 2:50pm | 3 | | | | |
| 2 | | | | | 4 | | | | |

**Brighton Analytical, L.L.C.™**
Email: bai-brighton@sbcglobal.net
2105 Pless Drive
Brighton, MI 48114
Phone: 810-229-7575
Fax: 810-229-8650

BA PROJECT #: 38812

**ABBREVIATIONS FOR MATRIX**
S = Solid
L = Liquid
DW = Drinking $H_2O$
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filter
T = Tube
M = Misc.

PROJECT NAME: Cornerstone Schools Association 6861 E. Nevada, Detroit, MI
PROJECT #: 16313
PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Sample collected by: Thomas W. Carpenter

**REQUESTED TURNAROUND:** (circle one)
**Rush:** 1 -3 business days (verify with lab & specify date needed)
~~1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost~~
**Standard:** 5 business days

If RUSH, approved by: _____

| Brighton ID # | Sample Description | Sample Coll. Date | Sample Coll. Time | Container Type & Quantity: VOA'S (PRES) Y N N/A | HDPE UNPRESERVED | HDPE $HNO_3$ | HDPE $H_2SO_4$ | HDPE NAOH | AMBER PRESERVED? | GLASS, NO PRESERVATIVE | STERILIZED BACTERIA | MEOH Preserved Y N | Sample Matrix | Analysis Requested/Method: Copper and Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) CP0.1673 | 6861-21 Sink | 4-29 | 11:50 | | | X | | | | | | DW | | X |
| 2) | | | | | | | | | | | | | | |
| 3) | | | | | | | | | | | | | | |
| 4) | | | | | | | | | | | | | | |
| 5) | | | | | | | | | | | | | | |
| 6) | | | | | | | | | | | | | | |
| 7) | | | | | | | | | | | | | | |
| 8) | | | | | | | | | | | | | | |
| 9) | | | | | | | | | | | | | | |
| 10) | | | | | | | | | | | | | | |

**Special Instructions:**

COMPANY/MAILING ADDRESS:
Performance Environmental
30535 S. Wixom Rd.
Wixom, MI 48393
ATTN: Lab data
PHONE: 248-926-3800
FAX OR EMAIL:

Samples received within hold time? yes ☐ no ☐
Temperature of samples °C:
pHs verified in login? yes ☐ no ☐
Headspace/bubbles in VOA's? yes ☐ no ☐ n/a ☐
Sample containers and COC match? yes ☐ no ☐

BILLING ADDRESS (IF REQUIRED):

**Drinking $H_2O$:**
Fax to LCHD? yes ☐ no ☐
Chlorinated Water Supply? yes ☐ no ☐
AMT.: _____

MCL Failure: yes ☐ no ☐
Client Notified (date/time/initials): _____

***Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.***

| Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: | Trans. # | RELINQUISHED BY: | RECEIVED BY: | DATE: | TIME: |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Thomas W. Carpenter | | 4-29-16 | 2:50pm | 3 | | | | |
| 2 | | | | | 4 | | | | |

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:25
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01653**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-1 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 120 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 19:25 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 19:25 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:27
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01654**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-2 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 130 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 19:29 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 19:29 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:28
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01655**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-3 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 440 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 19:34 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 19:34 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:29
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01656**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-4 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 250 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 19:38 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 19:38 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:31
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01657**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-5 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 160 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:10 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:10 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:32
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01658**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-6 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 150 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:14 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:14 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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2105 Pless Drive
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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:34
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01659**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-7 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 110 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:19 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:19 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:36
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01660**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-8 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 130 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:24 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:24 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:38
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01661**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-9 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 120 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:28 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:28 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:40
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01662**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-10 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 80 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:33 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:33 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:45
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01663**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-11 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 80 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:37 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:37 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:48
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01664**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-12 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 620 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:42 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:42 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:50
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01665**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-13 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 50 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 20:46 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 20:46 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:52
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01666**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-14 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 350 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 21:05 | 05/05/2016 |
| Total Lead (Drinking Water) | 15 | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 21:05 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:54
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01667**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-15 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 950 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 21:36 | 05/05/2016 |
| Total Lead (Drinking Water) | 8 | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 21:36 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:58
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01668**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-16 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 360 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 21:41 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 21:41 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

**Brighton Analytical LLC**
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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 10:59
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01669**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-17 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 190 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 21:45 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 21:45 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 11:02
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01670**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-18 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 250 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 22:04 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 22:04 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

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Phone: (810)229-7575 (810)229-8650
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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 11:04
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01671**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-19 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 240 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 22:08 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 22:08 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 11:24
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01672**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-20 DF**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 440 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 22:13 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 22:13 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date 5/9/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 11:50
Submit Date/Time: 4/29/2016 14:50
Report Date: 5/9/2016

Performance Environmental
30553 Wixom Road
Suite 500
Wixom, MI 48393

BA Project # **38812**
BA Sample ID **CD01673**

Project Name: **CornerstoneSchools Assoc.6861 E. Nevada, Detroit**
Project Number:**161313**
Sample ID: **6861-21 Sink**

| Analyte Name | Result | Units | RL | MCL | Method Reference | Analysis Time | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Drinking Water Metal Analysis** | | | | | | | |
| Total Copper (Drinking Water) | 130 | ug/L | 20 | 1300 | EPA 200.8 rev5.4 | 22:17 | 05/05/2016 |
| Total Lead (Drinking Water) | Not detected | ug/L | 1 | 15 | EPA 200.8 rev5.4 | 22:17 | 05/05/2016 |

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 5/9/16

Brighton Analytical L.L.C.

# BRIGHTON ANALYTICAL, LLC

# QUALITY ASSURANCE/QUALITY CONTROL

# ICP-MS
# METHOD 6020

**REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY**

Analysis Date: 5/5/2016 Standard ID: 042216 H2O Batch: 5/3/2016 W2

Matrix Spike Lab ID: CD01656 Matrix: Total Analyst: LT

| Metals | Matrix Spike - Precision * | | | Matrix Spike - Accuracy** | | | | Miscellaneous*** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Matrix Spike (ug/kg) | Matrix Spike Dup (ug/kg) | RPD (%) | Spk Conc (ug/kg) | MS Recovery (%) | MSD Recovery (%) | Sample Conc (ug/kg) | Method Blk (ug/kg) | LCS-Method STD (%) | Ind. Std. (%) |
| Copper | 1236 | 1226 | 0.8 | 1000 | 98.9 | 97.9 | 247 | <20 | 99.6 | 100.1 |
| Barium | 966 | 962 | 0.4 | 1000 | 95.2 | 94.8 | 14 | <5 | 95.9 | 99.9 |
| Lead | 942 | 945 | 0.3 | 1000 | 94.2 | 94.5 | 0 | <1 | 93.4 | 94.5 |

* Matrix spike precision range +/- 20% RPD
** Matrix spike accuracy range +/- 20% recovery
*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____

# ICP-MS
# METHOD 6020

**REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY**

Analysis Date: 5/5/2016 Standard ID: 042216 H2O Batch: 5/3/2016 W3

Matrix Spike Lab ID: CD00555 Matrix: Total Analyst: LT

| Metals | Matrix Spike - Precision * | | | Matrix Spike - Accuracy** | | | | Miscellaneous*** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Matrix Spike (ug/kg) | Matrix Spike Dup (ug/kg) | RPD (%) | Spk Conc (ug/kg) | MS Recovery (%) | MSD Recovery (%) | Sample Conc (ug/kg) | Method Blk (ug/kg) | LCS-Method STD (%) | Ind. Std. (%) |
| Copper | 988 | 972 | 1.6 | 1000 | 97.8 | 96.2 | 10 | <20 | 98.0 | 100.1 |
| Lead | 931 | 916 | 1.6 | 1000 | 92.9 | 91.4 | 2 | <1 | 97.2 | 94.5 |

* Matrix spike precision range +/- 20% RPD
** Matrix spike accuracy range +/- 20% recovery
*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____