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March 17, 2016

Mr. Janes Graham
Assistant Superintendent of Business & Finance
South Lyon Community Schools
345 South Warren
South Lyon, Michigan 48178
grahamj@slcs.us

RE: **AEG Project # AE160172**
Drinking Water Sampling
Twelve (12) District Buildings

Dear Mr. Graham:

Pursuant to the request of South Lyon Community Schools, Arch Environmental Group, Inc. collected representative first draw drinking water lead samples and representative service connection lead samples on March 5, 2016, at Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayer Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East. Additionally, follow-up samples were collected at Dolsen Elementary School and Sayer Elementary School on March 12, 2016. The results of the sampling are detailed in the attached report.

If you have any questions regarding the report, please feel free to contact Jenna Sendra at (248) 426-0165 [office] or (734) 239-1424 [mobile].

Sincerely,

Arch Environmental Group, Inc.
Environmental Services

Jenna Sendra
Manager, cleanWATER
D5 Waterworks System Operator 16544

Attach.

File: AE160172
Drinking Water Sampling



DRINKING WATER SAMPLING REPORT

Prepared For:

South Lyon Community Schools
345 South Warren
South Lyon, Michigan 48178

Prepared By:

Arch Environmental Group, Inc.
37720 Interchange Drive
Farmington Hills, Michigan 48335

Project #:	AE160172
Project Date(s):	March 5, 2016 & March 12, 2016
Report Date:	March 17, 2016

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1.0 / Introduction

Pursuant to the request of South Lyon Community Schools, Arch Environmental Group, Inc. (AEG) collected forty-eight (48) first draw drinking water samples and representative service connection¹ samples throughout Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayre Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016. Additionally, AEG collected two (2) flush samples on March 12, 2016, at Dolsen Elementary School and Sayre Elementary School. All drinking water samples collected by AEG as part of a lead in drinking water testing program are were collected and interpreted with the Environmental Protection Agencies (EPA) guidance manual *"3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance, October 2006"*; not to be confused with the protocol employed by public water suppliers. All samples were delivered to Certified Laboratory, Brighton Analytical, L.L.C., for analysis. 20

1.1 / Qualifications

Arch Environmental Group, Inc. is a full spectrum environmental services firm specializing in environmental health and safety consulting. Ms. Lauren Koloski and Mr. Kalan Briggs collected the first draw and flush drinking water samples under the direct supervision of Ms. Christine Caddick, who is accredited by the Michigan Department of Environmental Quality as a Certified Waterworks System Operator, Classification D-5, Operator Number 18412.

2.0 / Contaminant Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Lead

Lead enters into drinking water in two ways:

1. *At the Source*

Most sources of drinking water have no lead or very low levels of lead (i.e., under 5 ug/L). However, lead is a naturally occurring metal and in some instances can get into well water. Lead can enter surface waters (waters from rivers, lakes, or streams) through direct or indirect discharges from industrial or municipal wastewater treatment plants or when lead in air settles into water or onto city streets and eventually, via rain water, flows into storm sewers, or waterways, which may enter the water supply. Lead from these sources can be easily removed by existing treatment plant technologies.

2. *Through Corrosion*

Most lead gets into drinking water after the water leaves the local well or treatment plant and comes into contact with plumbing materials containing lead. These include lead pipe and lead solder (commonly used until 1986) as well as faucets, valves, and other components made of brass. The physical/chemical interaction that occurs between the water and plumbing is referred to as corrosion. The extent to which corrosion occurs contributes to the amount of lead that can be released into the drinking water.

Even though your public water supplier may deliver water that meets all federal and state public health standards for lead, you may end up with too much lead in your drinking water because of the plumbing in your facility. The potential for lead to leach into water can increase the longer the water remains in contact with lead in plumbing. As a result, areas with intermittent water use patterns, may have elevated lead concentrations. Additionally, some lead may get into the water from the distribution system – the network of pipes that carry the water to homes, businesses, and schools in the community. Some communities have lead components in their distribution systems, such as lead joints in cast iron mains, service connections, pigtails, and goosenecks.

¹ The pipe that carries tap water from the public water main to a building. In the past, these were often comprised of lead materials.

Public Water Supply Testing vs. Testing at Schools

Lead is regulated in public drinking water supplies under a federal law known as the Safe Drinking Water Act (SDWA). The requirements developed by EPA apply to public water systems. Schools that are served by a public water system (i.e., a drinking water system that they do not own or operate) are not subject to the SDWA monitoring and treatment requirements, because those schools do not meet the definition of a public water system.² It is important to note that the lead testing protocol utilized by public water systems is aimed at identifying system-wide problems rather than problems at outlets in individual buildings.³ Additionally, the Lead and Copper Rule (LCR) established an action level (AL) of 15 ug/L for lead. The action level exceedance is not a violation but triggers other actions to minimize exposure to lead.⁴

3.0 / Sampling

All sampling was conducted referencing EPA's guidance manual *"3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance, October 2006"*; not to be confused with the protocol employed by public water suppliers.

The representative first draw drinking water samples and representative service connection samples collected throughout Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016 identified lead levels below the 15 ug/L action level. Specific sample information is located in Appendix A.

However, two (2) of the samples collected on March 5, 2016 from Dolsen Elementary School and Sayre Elementary School identified lead levels above the 15 ug/L action level. The sample collected from the Kitchen single compartment prep sink at Dolsen Elementary School reported a lead level of 57 ug/L. Additionally, the sample collected from the Kitchen single compartment prep sink at Sayre Elementary School reported a lead level of 36 ug/L.

Following the identification of the elevated lead at Dolsen Elementary School on March 5, 2016 from the Kitchen single compartment prep sink, one (1) follow-up flush sample was collected from the same location on March 12, 2016. Follow-up flush samples are recommended by the EPA to determine how lead is entering the location and determine appropriate corrective actions if needed. The Kitchen single compartment prep sink flush sample reported a lead level of 6 ug/L, below the 15 ug/L action level. Specific sample information is located in Appendix A.

Finally, following the identification of the elevated lead at Sayre Elementary School on March 5, 2016 from the Kitchen single compartment prep sink, one (1) follow-up flush sample was collected from the same location on March 12, 2016. Follow-up flush samples are recommended by the EPA to determine how lead is entering at the location and determine appropriate corrective actions if needed. The Kitchen single compartment prep sink flush sample reported a lead level of 3 ug/L, below the 15 ug/L action level. Specific sample information is located in Appendix A.

4.0 / Conclusion

AEG collected forty-eight (48) representative first draw drinking water samples and representative service connection samples throughout the Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayre Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016.

² United States Environmental Protection Agency's manual *"3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance, October 2006"*, pg. 12.

³ United States Environmental Protection Agency's manual *"3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance, October 2006"*, pg. 28.

⁴ https://www.michigan.gov/deq/0,4561,7-135-3313_3675_3691-9677--,00.html

The sample results at Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East, identified lead levels below the 15 ug/L action level.

However, the sample collected from the Kitchen single compartment prep sink at Dolsen Elementary School on March 5, 2016, reported a lead level of 57 ug/L, above the 15 ug/L action level. Following the initial sample results, a follow-up flush sample was collected from the same location on March 12, 2016. The sample results from the flush sample reported a lead level of 6 ug/L, below the 15 ug/L action level. Flush sample results reported close to 5 ug/L or lower, indicate that the majority of the lead initially identified in the water is from the faucet.

Furthermore, the sample collected from the Kitchen single compartment prep sink at Sayre Elementary School on March 5, 2016, reported a lead level of 30 ug/L, above the 15 ug/L action level. Following the initial sample results, a follow-up flush sample was collected from the same location on March 12, 2016. The sample results from the flush sample reported a lead level of 3 ug/L, below the 15 ug/L action level. Flush sample results reported close to 5 ug/L or lower, indicate that the majority of the lead initially identified in the water is from the faucet.

It is the opinion of Arch Environmental Group, Inc. that South Lyon Community Schools conduct the following:

Interim Measures:

1. Remove the sink from service.

Permanent:

2. Replace the faucet/tap.
3. Once the faucet/tap is replaced, conduct a follow-up first draw sample.

Of the forty-eight (48) water samples that were tested throughout the district, only two (2) showed lead levels above the 15 ug/L mark. In other words, 95% of the water outlets tested did not have any lead problems.

Below are routine activities identified by the EPA that may be conducted to prevent elevated lead levels:

1. Use only cold water for food and beverage preparation. Hot water will dissolve lead more quickly than cold water and is likely to contain increased lead levels.
2. Instruct the users (students and staff) to run the water before drinking or staff could run the water before students arrive, so they are drinking water that has not been in contact with the faucet interior since faucets are often a major source of lead in drinking water.
3. Shut off outlets not in use.
4. Drinking fountains with reduced or low flow should be removed from service until repaired.

APPENDIX A

Results Table



**South Lyon Community Schools
Drinking Water Lead Analysis
Project Number: AE160172**

Bartlett Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Bart ES - 01	Kitchen 1 Compartment Prep Sink	*S	8:00 AM	15	7	First Draw
Bart ES - 02	Fountain near Door #11	D	8:05 AM	15	2	First Draw
Bart ES - 03	Boiler Room Slop Sink	SS	8:10 AM	15	ND	Service Connection

Brummer Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Brum ES - 01	Kitchen 1 Compartment Sink	*S	8:00 AM	15	2	First Draw
Brum ES - 02	Room #B5 Fountain	SD	8:05 AM	15	7	First Draw
Brum US - 03	Kitchen Custodial Closet Slop Sink	SS	8:10 AM	15	ND	Service Connection

Centennial Middle School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Cent MS - 01	Kitchen 2 Compartment Sink	*S	8:37 AM	15	1	First Draw
Cent MS - 02	Left Fountain next to Room #506 Storage	C	8:40 AM	15	ND	First Draw
Cent MS - 03	Northwest 6th Grade Wing left Fountain	C	8:43 AM	15	1	First Draw
Cent MS - 04	Fountain outside Room #230	C	8:46 AM	15	2	First Draw
Cent MS - 05	Boiler Room Spigot off Main	SC	8:50 AM	15	1	Service Connection

Dolsen Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Dolsen ES - 01	Kitchen 1 Compartment Prep Sink	*S	11:10 AM	15	57	First Draw
Dolsen ES - 02	Room #B7	SD	11:15 AM	15	4	First Draw
Dolsen ES - 03	Spigot off Main	SC	11:20 AM	15	4	Service Connection

Dolsen Elementary School

Date of Sampling: March 12, 2016

Sampler: Lauren Koloski

Sample #	Location	Type	Time Collected	EPA Level ug/L	Results (ug/L)	Notes
Dolsen ES - 04	Kitchen 1 Compartment Prep Sink	*S	9:58 AM	15	6	Flush Follow-Up Sample

1) Type: S = Sink, *S = Sink Used for Drinking, C = Cooler, D = Drinking Fountain, SD = Sink/ Drinking Fountain combo, SS = Slop Sink, SC = Service Connection :
EPA manual "3T's for Reducing Lead in Drinking Water in Schools"



**South Lyon Community Schools
Drinking Water Lead Analysis
Project Number: AE160172**

Hardy Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Hardy ES - 01	Fountain in Classroom #G8	SD	7:42 AM	15	7	First Draw
Hardy ES - 02	Kitchen 1 Compartment Prep Sink	*S	7:47 AM	15	9	First Draw
Hardy ES - 03	Boiler Room Spigot off Main	SC	7:51 AM	15	1	Service Connection

Kent Lake Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Kent ES - 01	Room #A107 Fountain	SD	10:50 AM	15	ND	First Draw
Kent ES - 02	Custodial Closet near Boiler Room Slop Sink	SS	10:53 AM	15	1	Service Connection
Kent ES - 03	Kitchen 1 Compartment Prep Sink	*S	10:57 AM	15	8	First Draw

Millennium Middle School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Mill MS - 01	Kitchen 1 Compartment Sink	*S	9:03 AM	15	2	First Draw
Mill MS - 02	Fountain near Room #618	C	9:04 AM	15	2	First Draw
Mill MS - 03	Fountain near Door #2	C	9:11 AM	15	ND	First Draw
Mill MS - 04	Fountain next to Room #218	C	9:14 AM	15	ND	First Draw
Mill MS - 05	Staff Bathroom in Kitchen	S	9:17 AM	15	ND	Service Connection

Salem Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Salem ES - 01	Kitchen 1 Compartment Prep Sink	*S	11:51 AM	15	ND	First Draw
Salem ES - 02	Room #C7 Fountain	SD	11:56 AM	15	2	First Draw
Salem ES - 03	Custodial Closet Slop Sink next to Boiler Room	SS	12:05 AM	15	1	Service Connection

Sayre Elementary School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Sayer ES - 01	Kitchen 1 Compartment Prep Sink	*S	9:32 AM	15	36	First Draw
Sayer ES - 02	Room #K2 Fountain	SD	9:33 AM	15	ND	First Draw
Sayer ES - 03	Staff Bathroom Sink by Receiving	S	9:39 AM	15	ND	Service Connection

1) Type: S = Sink, *S = Sink Used for Drinking, C = Cooler, D = Drinking Fountain, SD = Sink/ Drinking Fountain combo, SS = Slop Sink, SC = Service Connection :
EPA manual "3T's for Reducing Lead in Drinking Water in Schools"



**South Lyon Community Schools
Drinking Water Lead Analysis
Project Number: AE160172**

Sayre Elementary School

Date of Sampling: March 12, 2016

Sampler: Lauren Koloski

Sample #	Location	Type	Time Collected	EPA Level ug/L	Results (ug/L)	Notes
Sayer ES - 04	Kitchen 1 Compartment Prep Sink, next to handwash sink	*S	10:30 AM	15	3	Flush Follow-Up Sample

South Lyon Early Childhood Center

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
SLECC - 01	Kitchen 2 Compartment Sink	*S	9:49 AM	15	ND	First Draw
SLECC - 02	Staff Bathroom near Water Main	S	9:57 AM	15	4	Service Connection
SLECC - 03	Room #1 Fountain	SD	9:53 AM	15	ND	First Draw

South Lyon High School

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
Souly HS - 01	Fountain next to Room #6281	C	6:57 AM	15	ND	First Draw
Souly HS - 02	North Bathroom Sink in Receiving	S	7:20 AM	15	ND	Service Connection
Souly HS - 03	Fountain next to Room #A200	C	7:06 AM	15	ND	First Draw
Souly HS - 04	Fountain next to Room #A109	C	7:08 AM	15	ND	First Draw
Souly HS - 05	Fountain neat west entrance to Pool	D	7:11 AM	15	ND	First Draw
Souly HS - 06	Fountain in southeast corner of Gym	D	7:14 AM	15	ND	First Draw
Souly HS - 07	South Kitchen 2 Compartment Sink	*S	7:16 AM	15	ND	First Draw

South Lyon High School East

Date of Sampling: March 5, 2016

Sampler: Kalan Briggs

Sample #	Location	Type ¹	Time Collected	EPA Level ug/L ²	Results (ug/L)	Notes
SLHS East - 01	Boiler Room Slop Sink	SS	6:31 AM	15	2	Service Connection
SLHS East - 02	North 1 Compartment Prep Sink	*S	6:06 AM	15	7	First Draw
SLHS East - 03	West Gym Wall Fountain	D	6:09 AM	15	1	First Draw
SLHS East - 04	Room #2602 Fountain	D	6:14 AM	15	3	First Draw
SLHS East - 05	Left Fountain near Door #8	C	6:17 AM	15	2	First Draw
SLHS East - 06	Left Fountain near Room #2401	C	6:22 AM	15	ND	First Draw
SLHS East - 07	Left Fountain to the right of Room #2201	C	6:25 AM	15	ND	First Draw

1) Type: S = Sink, *S = Sink Used for Drinking, C = Cooler, D = Drinking Fountain, SD = Sink/ Drinking Fountain combo, SS = Slop Sink, SC = Service Connection :
EPA manual "3T's for Reducing Lead in Drinking Water in Schools"

APPENDIX B

Analytical Results & Chain of Custody

March 11, 2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

Subject: South Lyon Community Schools
AE160172

Dear Ms. Caddick :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/07/2016 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 37935 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.

<div> <div> <div>BA</div> <div> <div>Brighton Analytical, L.L.C.TM</div> <div> 2105 Pless Drive Brighton, MI 48114 </div> </div> <div> <div>Phone: 810-229-7575</div> <div>Fax: 810-229-8650</div> </div> </div> <div> <div>Email: bai-brighton@shqglobal.net</div> </div> </div>		<div> <div>BA PROJECT #:</div> <div>34935</div> </div> <div> <div>ABBREVIATIONS FOR MATRIX</div> <div> S = Solid L = Liquid DW = Drinking H₂O O = Oil P = Wipe A = Air (Tedar Bag) F = Filter T = Tube M = Misc. </div> </div>		<div> <div>COMPANY/MAILING ADDRESS:</div> </div>		<div> <div>PAGE 2 OF 5</div> </div>	
<div>PROJECT NAME:</div> <div>AELG0172</div>		<div>PROJECT #:</div> <div>AELG0172</div>		<div>Analysis Requested/Method</div>		<div>COMPANY/MAILING ADDRESS:</div>	
<div>PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)</div>		<div>Sample collected by:</div>		<div>Sample Matrix</div>		<div>Analysis Requested/Method</div>	
<div>REQUESTED TURNAROUND: (circle one)</div> <div> 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: 6 business days </div>		<div>Container Type & Quantity</div>		<div>Sample Matrix</div>		<div>Analysis Requested/Method</div>	
<div>IF RUSH, approved by:</div>		<div>Sample Coll.</div>		<div>Sample Matrix</div>		<div>Analysis Requested/Method</div>	
<div>Brighton ID #</div>		<div>Sample Description</div>		<div>Sample Coll.</div>		<div>Analysis Requested/Method</div>	
<div>1) SLMS EAST-04</div>		<div>ROOM #2602 FOUNTAIN</div>		<div>3/5/16 614</div>		<div>Analysis Requested/Method</div>	
<div>2) SLMS EAST-05</div>		<div>LEFT FOUNTAIN NEAR POOR 8</div>		<div>617</div>		<div>Analysis Requested/Method</div>	
<div>3) SLMS EAST-06</div>		<div>LEFT FOUNTAIN BY ROOM 2401</div>		<div>622</div>		<div>Analysis Requested/Method</div>	
<div>4) SLMS EAST-07</div>		<div>LEFT FOUNTAIN BY ROOM 2201</div>		<div>625</div>		<div>Analysis Requested/Method</div>	
<div>5) CENTMS-01</div>		<div>KITCHEN 2-CAMP SINK</div>		<div>837</div>		<div>Analysis Requested/Method</div>	
<div>6) CENTMS-02</div>		<div>FOUNTAIN NEXT TO 506 STORAGE</div>		<div>840</div>		<div>Analysis Requested/Method</div>	
<div>7) CENTMS-03</div>		<div>NE 6th GRADE FOUNTAIN</div>		<div>843</div>		<div>Analysis Requested/Method</div>	
<div>8) CENTMS-04</div>		<div>FOUNTAIN BY ROOM 230</div>		<div>846</div>		<div>Analysis Requested/Method</div>	
<div>9) CENTMS-05</div>		<div>BULKY ROOM SPICITOFFEN</div>		<div>850</div>		<div>Analysis Requested/Method</div>	
<div>10) MILLMS-01</div>		<div>KITCHEN 1-CAMP PREP SINK</div>		<div>903</div>		<div>Analysis Requested/Method</div>	
<div>Special Instructions:</div>							
<div>Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.</div>							
<div>Trans. #</div>		<div>RELINQUISHED BY:</div>		<div>RECEIVED BY:</div>		<div>DATE:</div>	
<div>1</div>		<div>USEL</div>		<div>3.7.16</div>		<div>10:15 AM</div>	
<div>2</div>		<div></div>		<div></div>		<div></div>	

BA 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 #: <u>379358</u> ABBREVIATIONS FOR MATRIX S = Solid L = Liquid DW = Drinking H ₂ O O = Oil P = Wipe A = Air (Tediator Bag) F = Filter T = Tube M = Misc.				Analysis Requested/Method				PAGE <u>3</u> OF <u>5</u> COMPANY/MAILING ADDRESS:							
PROJECT NAME:																			
PROJECT #: <u>A6160172</u>																			
PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)																			
Sample collected by:																			
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: <u>0</u> business days				IF RUSH, approved by: _____ Sample Coll. Date Time				Container Type & Quantity VOAS (PRES) Y N NA HDPE UNPRESERVED HDPE HNO ₃ HDPE H ₂ SO ₄ HDPE NAOH AMBER PRESERVED? GLASS, NO PRESERVATIVE STERILIZED BACTERIA MEQH Preserved Y N				Sample Matrix LEAD				Analysis Requested/Method			
Brighton ID #	Sample Description	Date	Time	VOAS (PRES) Y N NA	HDPE UNPRESERVED	HDPE HNO ₃	HDPE H ₂ SO ₄	HDPE NAOH	AMBER PRESERVED?	GLASS, NO PRESERVATIVE	STERILIZED BACTERIA	MEQH Preserved Y N	Sample Matrix	Analysis Requested/Method					
1) MILLMS-02	Fountain BY ROOM 618	3/5/16	904		X	X							DV						
2) MILLMS-03	Fountain NEAR DOOR #2		911		X	X													
3) MILLMS-04	Fountain NEAR DOOR 218		914		X	X													
4) MILLMS-05	STAFF BATHROOM IN KITCHEN		917		X	X													
5) BOLLSES-01	KITCHEN 1-COMP PREP SINK		1110		X	X													
6) BOLLSES-02	ROOM #87 FOUNTAIN		1115		X	X													
7) BOLLSES-03	SPICOT OFF MAIN		1120		X	X													
8) BARTES-01	KITCHEN 1-COMP PREP SINK		1001		X	X													
9) BARTES-02	Fountain NEAR DOOR #11		1006		X	X													
10) BARTES-03	BOILER ROOM SCOP SINK		1010		X	X													

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	<i>WAB</i>	<i>WAB</i>	3-7-16	10:55 am	3				
2					4				

Brighton Analytical, L.L.C. <small>Email: bai-brighton@sbglobal.net</small> 2105 Pless Drive Brighton, MI 48114 Phone: 810-229-7575 Fax: 810-229-8650		BA PROJECT #: 57435 ABBREVIATIONS FOR MATRIX S = Solid L = Liquid DW = Drinking H ₂ O O = Oil P = Wipe A = Air (Tedlar Bag) F = Filter T = Tube M = Misc.		RA PROJECT #: 57435 ABBREVIATIONS FOR MATRIX S = Solid L = Liquid DW = Drinking H ₂ O O = Oil P = Wipe A = Air (Tedlar Bag) F = Filter T = Tube M = Misc.		Analysis Requested/Method		PAGE 4 OF 5 COMPANY/MAILING ADDRESS:	
		PROJECT NAME:		PROJECT #: AE160172		PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)		ATTN: PHONE: FAX OR EMAIL:	
Sample collected by:									
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:		Container Type & Quantity		Sample Matrix		Analysis Requested/Method	
Brighton ID #		Sample Description		Date		Time		Sample Matrix	
1) KENTES-01 ROOM A107 FOUNTAIN		3/5/16		1050		X		X	
2) KENTES-02 CLOSET		1053		X		X		X	
3) KENTES-03 KITCHEN 1- COMP PREPSINK		1057		X		X		X	
4) SALEMES-01 KITCHEN 1- COMP PREPSINK		1151		X		X		X	
5) SALEMES-02 ROOM C7 FOUNTAIN		1156		X		X		X	
6) SALEMES-03 CLOSET		1205		X		X		X	
7) SAYREES-01 KITCHEN 1- COMP PREPSINK		932		X		X		X	
8) SAYREES-02 ROOM K2 FOUNTAIN		935		X		X		X	
9) SAYREES-03 STAFF BATH ROOM SINK		939		X		X		X	
10) HARDYES-01 ROOM G8 FOUNTAIN		742		X		X		X	
Special Instructions:									

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.									
RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:		DATE:		TIME:	
Trans. #		DATE:		TIME:		Trans. #		DATE:	
1		3/5/16		10:50 AM		3		3/5/16	
2		3/5/16		10:50 AM		4		3/5/16	



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

Sample Date/Time: 3/5/2016 06:57
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07087**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SOULYHS-01 Fountain Next to Rm G281**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	00:17	03/09/2016
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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 3/11/16

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Date 3/11/16

Date _____

Date _____

Date _____



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 07:14
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07092**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SOULYHS-06 SE Gym Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	00:40	03/09/2016
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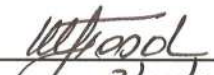
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 07:16
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07093**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SOULYHS-07 S. Kitchen 2-Comp Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	00:58	03/09/2016


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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Sample Date/Time: 3/5/2016 06:31
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07094**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-01 Boiler Rm Slop Sink SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	01:03	03/09/2016

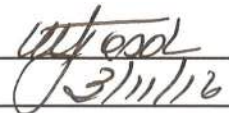
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 06:06
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07095**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-02 N 1-Comp Kit. Prep Snk**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	01:08	03/09/2016
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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.

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Sample Date/Time: 3/5/2016 06:09
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07096**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-03 W. Gym Wall Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	01:12	03/09/2016

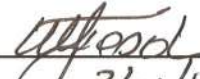
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 06:14
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07097**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-04 Room #2602 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	01:30	03/09/2016
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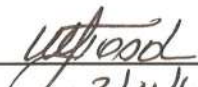
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 06:17
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07098**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-05 Left Ftn Near Door 8**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	01:35	03/09/2016
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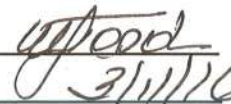
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

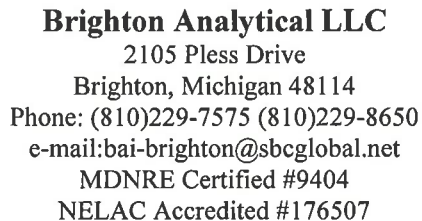
MCL = Maximum contaminant Levels.

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37720 Interchange Dr.
Farmington Hills, MI 48335

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-06 Left Ftn by Room 2401**

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Sample Date/Time: 3/5/2016 06:25
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07100**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLHS East-07 Left Ftn by Room 2201**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	01:57	03/09/2016
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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

[Signature]
3/11/16



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Sample Date/Time: 3/5/2016 08:37
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07101**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **CENTMS-01 Kitchen 2-Comp Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	02:02	03/09/2016
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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.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 08:40
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07102**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **CENTMS-02 Ftn next to 506 Storage**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	02:06	03/09/2016
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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

J. J. J. J.
3/11/16



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 08:43
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07103**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **CENTMS-03 NE 6th Grade Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	02:11	03/09/2016
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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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Sample Date/Time: 3/5/2016 08:46
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07104**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **CENTMS-04 Fountain by Room 230**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	02:15	03/09/2016

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: 3/5/2016 08:50
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07105**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **CENTMS-05 Boiler Rm Spigot Main SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	02:20	03/09/2016

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 3/11/16



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:03
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07106**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **MILLMS-01 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	03:05	03/09/2016

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 W. J. J. J.
Date 3/11/16



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Brighton, Michigan 48114
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e-mail: bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:04
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07107**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **MILLMS-02 Fountain by Room #618**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	03:10	03/09/2016
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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

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Date _____



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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: 3/5/2016 09:14
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07109**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **MILLMS-04 Fountain near Room 218**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	03:19	03/09/2016
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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

1/1/0501
3/11/16



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

Sample Date/Time: 3/5/2016 09:17
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07110**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **MILLMS-05 Staff Bathroom Kitchen SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	03:23	03/09/2016

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 W. H. H. H.
Date 3/11/16



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2105 Pless Drive
Brighton, Michigan 48114
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e-mail: bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 11:10
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07111**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **DOLSES-01 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	57	ug/L	1	15	EPA 200.8 rev5.4	03:28	03/09/2016

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 W. Ford
Date 3/11/16



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

Sample Date/Time: 3/5/2016 11:15
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07112**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **DOLSES-02 Room #87 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	03:32	03/09/2016
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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.

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

Sample Date/Time: 3/5/2016 11:20
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07113**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **DOLSES-03 Spigot Off Main SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	03:37	03/09/2016
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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.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:01
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07114**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **BARTES-01 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	03:55	03/09/2016

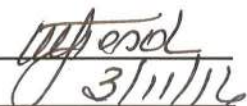
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:06
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07115**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **BARTES-02 Fountain near Door #11**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	04:00	03/09/2016

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 3/11/16



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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:10
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07116**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **BARTES-03 Boiler Room Slop Sink SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	04:18	03/09/2016
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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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W. Wood
3/11/16



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:50
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07117**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **KENTES-01 Room A107 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
--------------	--------	-------	----	-----	------------------	---------------	---------------

Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	04:22	03/09/2016
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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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[3/11/16]

Date _____



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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:57
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07119**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **KENTES-03 Kitchen 1-Comp. Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	8	ug/L	1	15	EPA 200.8 rev5.4	04:31	03/09/2016

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

Sample Date/Time: 3/5/2016 11:51
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07120**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SALEMES-01 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	04:36	03/09/2016

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.

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Sample Date/Time: 3/5/2016 11:56
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07121**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SALEMES-02 Room C7 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	04:54	03/09/2016

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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Sample Date/Time: 3/5/2016 12:05
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07122**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SALEMES-03Cust.ClosetSlopSnk BR SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	04:59	03/09/2016

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.

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Sample Date/Time: 3/5/2016 09:32
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07123**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SAYRES-01 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	36	ug/L	1	15	EPA 200.8 rev5.4	05:03	03/09/2016

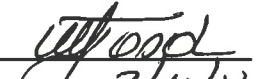
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:35
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07124**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SAYRES-02 Room K2 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	05:08	03/09/2016

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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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:39
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07125**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SAYRES-03 Staff Bathroom Snk Rec.SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	05:12	03/09/2016
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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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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 07:42
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07126**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **HARDYES-01 Room G8 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	05:17	03/09/2016

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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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 07:47
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07127**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **HARDYES-02 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	9	ug/L	1	15	EPA 200.8 rev5.4	06:02	03/09/2016

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.

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Date 3/11/16

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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:49
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07129**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLECC-01 Kitchen 2-Comp Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	06:11	03/09/2016

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.

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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 09:57
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07130**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLECC-02 Staff Bathrm Water Main SC**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	06:15	03/09/2016

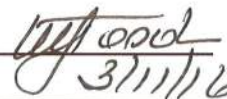
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 09:53
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07131**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **SLECC-03 Room #1 Fountain**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	06:20	03/09/2016
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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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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 10:19
Submit Date/Time: 3/7/2016 10:00
Report Date: 3/11/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **37935**
BA Sample ID **CC07132**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **BRUMES-01 Kitchen 1-Comp Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	06:24	03/09/2016

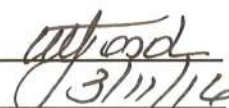
RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date


3/11/16

Date _____

Date _____



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY
CONTROL

ICP-MS

METHOD 6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 3/9/2016

Standard ID: 021616 H2O

Batch: 3/7/2016 W3

Matrix Spike Lab ID: CC07096

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. (%)
Lead	950	969	2.0	1000	94.9	96.8	1	<1	98.7	97.9

* 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: 3/9/2016

Standard ID: 021616 H2O

Batch: 3/7/2016 W4

Matrix Spike Lab ID: CC07115

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. (%)
Lead	1004	993	1.1	1000	100.2	99.1	2	<1	103.3	97.9

* 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 200.8

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 3/9/2016

Standard ID: 021616 H20

Batch: 3/7/2016 W5

Matrix Spike Lab ID: CC07139

Matrix: Total

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Potassium	31326	31981	2.1	10000	89.5	96.1	22376	<100	91.1	91.0
Nickel	974	978	0.4	1000	97.4	97.8	0	<10	99.8	103.4
Copper	1000	1011	1.1	1000	99.7	100.8	3	<4	101.5	104.5
Zinc	1030	1037	0.7	1000	98.6	99.3	44	<5	98.9	99.7
Arsenic	934	952	1.9	1000	93.4	95.2	0	<1	93.1	98.8
Selenium	962	979	1.8	1000	96.2	97.9	0	<5	95.7	98.9
Molybdenum	974	978	0.4	1000	97.0	97.4	4	<10	95.4	96.4
Cadmium	972	983	1.1	1000	97.2	98.3	0	<0.2	97.5	98.4
Lead	962	960	0.2	1000	96.2	96.0	0	<1	95.2	97.9

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 20% recovery

*** LCS accuracy range +/- 20% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____

March 16, 2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

Subject: South Lyon Community Schools
AE160172

Dear Ms. Caddick :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/14/2016 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 38009 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.



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: 3/12/2016 09:58
Submit Date/Time: 3/14/2016 09:25
Report Date: 3/16/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **38009**

BA Sample ID **CC07298**

Project Name: **South Lyon Community Schools**

Project Number: **AE160172**

Sample ID: **Dolses-04 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	6	ug/L	1	15	EPA 200.8 rev5.4	12:57	03/15/2016
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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


3/16/16



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: 3/12/2016 10:30
Submit Date/Time: 3/14/2016 09:25
Report Date: 3/16/2016

Arch Environmental Group
37720 Interchange Dr.
Farmington Hills, MI 48335

BA Project # **38009**
BA Sample ID **CC07299**

Project Name: **South Lyon Community Schools**
Project Number: **AE160172**
Sample ID: **Sayres-04 Kitchen 1-Comp Prep Sink**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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Drinking Water Metal Analysis

Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	13:01	03/15/2016
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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

3/16/16



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY
CONTROL

ICP-MS

METHOD 200.8

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 3/15/2016

Standard ID: 021616 H2O

Batch: 3/14/2016

Matrix Spike Lab ID: CC07295

Matrix: Total

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Magnesium	17177	17417	1.4	10000	100.5	102.9	7128	<100	95.1	90.5
Calcium	35454	35367	0.2	10000	93.1	92.2	26148	<100	98.9	92.3
Iron	10022	10046	0.2	10000	100.1	100.3	14	<10	98.8	92.8
Lead	1003	1000	0.3	1000	100.3	100.0	0	<1	102.3	98.5

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 20% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____