



August 2, 2016

Debra Spring Matrix Head Start 2051 Rosa Parks Boulevard Detroit, Michigan 48216

SUBMITTED VIA EMAIL TO: dspring@matrix.org

SUBJECT: Drinking Water Screening Report

Salem

21230 Moross Road Detroit, Michigan 48236

Dear Ms. Spring:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to TriMatrix Laboratories, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead analysis.

SCOPE OF WORK

At the request of the Matrix Head Start (Matrix), ATC collected drinking water samples as a general screening for lead at the subject school. Matrix in coordination with the City of Detroit Health Department determined that the screening would consist of collection of water samples from three (3) high priority water outlets (drinking fountains, kitchen/food preparation area faucets, etc.), regularly used by students and staff for drinking, as designated by Matrix personnel. Two (2) samples were collected at each outlet: a first draw (Primary) sample; and a Flush sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight hours. The Flush samples were collected after the water was allowed to run for a minimum of thirty (30) seconds at each of the sample locations.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a coding system that identified: the type of drinking outlet sampled, Drinking Water Fountain (DWF), Drinking Water Cooler (DWC), Kitchen Faucet (KF) etc.; and a (P) for primary samples and a (F) for flush samples.





The samples were transported under chain of custody to TriMatrix Laboratories, located at 5560 Corporate Exchange Court SE, Grand Rapids Michigan for MDEQ drinking water certified lead analysis, using analytical method EPA 200.8 rev 5.4.

As per the EPA's 3T's for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance (October 2006) analysis of the flush sample(s) was only performed if analysis of the first draw (Primary) sample(s) indicated lead and/or copper concentrations greater than the EPA established Maximum Contaminate Level (MCL).

FINDINGS

Analytical results indicate that none of the samples analyzed were above the EPA recommended limits of 0.015 milligrams per liter (mg/L) for lead. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment A.

Sample Number	Total Lead (Drinking Water)	MCL
1-P-F (Kitchen Faucet)	0.0041 mg/L	0.015 mg/L
1-F-F (Kitchen Faucet)	NA	0.015 mg/L
2-P-F (Boy's Bath Sink)	0.0012 mg/L	0.015 mg/L
2-F-F (Boy's Bath Sink)	NA	0.015 mg/L
3-P-F (Unisex Bath Sink)	0.0010 mg/L	0.015 mg/L
3-F-F (Unisex Bath Sink)	NA	0.015 mg/L

Key: NA - Not Analyzed

mg/L- milligrams per liter /parts per million (ppm)



46555 Humboldt Drive Novi, Michigan 48377 Telephone 248-669-5140 www.atcgroupservices.com

LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead only, to assess lead concentrations (mg/L) at drinking water outlets in the school designated as high use by Matrix, and may not be representative of all drinking water outlets within the school. If lead concentrations are identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumping system, fixtures affected, and testing should be completed to assess the source of the elevated levels of lead, as well as, any other response actions deemed necessary by Matrix.

The drinking water screening proposed and conducted by ATC was devised in cooperation with Matrix, City of Detroit Health Department and utilizing the EPA's 3Ts for Reducing Lead in Drinking Water in Schools and may not meet all of the recommendations provided by the MDEQ "Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies" Version 2.0 - April 13, 2016. Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

ATC Group Services, LLC

Marte & Somble

Martin Gamble

Senior Project Manager

Robert C. Smith

Building Science Department Manager

Robert C. Kiniz



June 17, 2016

ATC Group Services Attn: Mr. Robert Smith 46555 Humboldt, Suite 100 Novi, MI 48377

Project: School Drinking Water Testing

Dear Mr. Robert Smith,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1606148	06/07/2016	Salem

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ANAB DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kentucky DEP (AL123065/#0021); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/53116); North Carolina DNRE (#659); Virginia DCLS (#460153/7952); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-14-00305).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Gary L. Wood Project Chemist



PROJECT TECHNICAL NARRATIVE(s)

No Project Narrative is associated with this report.

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualification is required.



ANALYTICAL REPORT

Client:ATC Group ServicesWork Order:1606148Project:School Drinking Water TestingDescription:Salem

Client Sample ID: **1-P-F Kitchen Fountain** Sampled: 06/03/16 07:30

Lab Sample ID: **1606148-01** Sampled By: ATC

Matrix: Drinking Water Received: 06/07/16 17:45

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	Ву	QC Batch
Lead	0.0041	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 16:28	MSB	1606144



ANALYTICAL REPORT

Client: ATC Group Services Work Order: 1606148
Project: School Drinking Water Testing Description: Salem

Client Sample ID: **2-P-F Boys Bath Sink** Sampled: 06/03/16 07:38

Lab Sample ID: **1606148-03** Sampled By: ATC

Matrix: Drinking Water Received: 06/07/16 17:45

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	Ву	QC Batch
Lead	0.0012	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 16:29	MSB	1606144



ANALYTICAL REPORT

Client: ATC Group Services Work Order: 1606148
Project: School Drinking Water Testing Description: Salem

Client Sample ID: **3-P-F Unisex Bath Sink** Sampled: 06/03/16 07:41

Lab Sample ID: **1606148-05** Sampled By: ATC

Matrix: Drinking Water Received: 06/07/16 17:45

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	Ву	QC Batch
Lead	0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 16:33	MSB	1606144



QUALITY CONTROL REPORT

Metals in Drinking Water by EPA 200 Series Methods

	Sample	Spike			Spike	Control		RPD	
QC Type	Conc.	Qty.	Result	Unit	% Rec.	Limits	RPD	Limits	RL

Analyte: Lead/USEPA-200.8 Rev. 5.4

QC Batch: 1606144 (Metals Direct Analysis)					Analyzed: 06/15/2016	By: MSB
Method Blank		<0.0010	mg/L			0.0010
Laboratory Control Sample	0.0400	0.0403	mg/L	101	85-115	0.0010



PRETREATMENT SUMMARY PAGE

Client: ATC Group Services

Project: School Drinking Water Testing

				Date & Time	
Pretreatment	Lab Sample ID	Batch	Ву	Prepared	
USEPA 600/R-94/173	1606148-01	1606144	PNS	06/14/16 14:14	
	1606148-03	1606144	PNS	06/14/16 14:14	
	1606148-05	1606144	PNS	06/14/16 14:14	



-	Company 7	Sampler's Signature	Sampled By (print)				2	8	0	2	10	Z	0	Schedule Code	119061A	Jim McFadden	Receipt Log No.	VOA Rack/Tray	Can /3	
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14	376		Carrier											Cooler ID	Silvon	Invoi	Clien	Proje	t SE, Gr 42-7463	
1225 /	Md9							E	_			-	6-3-6	Sample	Seb Sm	Invoice To	885516184	Project Name	and Rapi	Ch
2. Received By	2. Rejorguished By	0	Comments F					245	7:41	7:39	7:36	7:32	\$ 7.30	Sample Time	3 5		Client Project No. / P.O. No. 88 55 16 18 4	3	ds, MI 49 trimatrixla	Chain of Custody Record
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ORIGINAL - LABORATORY

COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

A TOMATO	Clent / T/Y - S/	Y /FIX Work C	1606148
TRIMATRI	E S Receipt Record Page/Line #	New / Add To Project Charries - Sample	1000190
Recorded by (initials/date)	Cooler Oty Receive	IR Gun (#202)	01 00
51/10/	Box ,	Thermometer Used Digital Thermome	eter (#54) See Additional Cooler
WN 6 1-16	Other/	Other (#) Injuriation Form
COOLET 1 087 - 1 m2037	Cooler# Time	Cooler # Time	Cooler # Time
Custody Seals:	Custody Seals:	Custody Seals:	Custody Seals:
None	O None	None	O None
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Coolant Type:	Coolant Type:	Coolant Type:	Coolant Type:
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Bagged Ice	☐ Bagged Ice	☐ Bagged Ice	☐ Bagged Ice
☐ Blue Ice	Blue Ice	☐ Blue Ice	☐ Blue Ice
☐ None Coolant Location:	Coolant Location:	Coolant Location:	Coolant Location:
Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Botto
Temp Blank Present ☐ Yes ☐ No	Temp Blank Present: Yes No	Temp Blank Present: Yes No	Temp Blank Present ☐ Yes ☐ No
If Present, Temperature Blank Location is:	If Present, Temperature Blank Location is:	If Present, Temperature Blank Location is:	If Present, Temperature Blank Location
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Observed Correction Actual *C	Observed Correction Actual °C	Observed Correction Actual °C	Observed Correction Actual *C
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TRIMATRIX LABORATORIES

SAMPLE PRESERVATION VERIFICATION FORM

page __/ of _/

er# 1/ 51 1/02	
1606148	0.10
	474
	nemist JDM

157	01715		Adjusted by: Date:		DO NOT AD	JUST PH FOR T	HESE CONT	AINER TYPE
Container Type	5/23	4	13		6	15		T
Tag Color	Lt. Blue	Blue	Brown	-	Red	Red Stripe		
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄		HNO ₃	HNO ₃		
Expected pH	>12	<2	<2		<2	<2		
COC Line #1								
COC Line #2				500	/	27/90	5 400	1
COC Line #3	STE S				1/			1
COC Line #4	G-11		13.5		1/	2391		LA SE
COC Line #5					1/			E III C
COC Line #6		- T			1			
COC Line #7				3 3 1				
COC Line #8	1502			2017	100	HE W. C	= 13	1 -12
COC Line #9								
COC Line #10				100		31177	11.4	

pH	Strip Reagent #
6_	6040263

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 6 and 15.

COC ID#			Adjusted by:_ Date:		DO NOT AL	DJUST pH FOR	THESE CONTA	MNER TYPES
Container Type	5 / 23	4	13		6	15		
Tag Color	Lt. Blue	Blue	Brown		Red	Red Stripe		
Preservative	NaOH	H ₂ SO ₂	H ₂ SO ₄		HNOa	HNO ₂	= 0	
Expected pH	>12	<2	<2		<2	<2		
COC Line #1	1				100		31 2	- 4
COC Line #2					-			
COC Line #3			-		9 - 11		FAM	36.5
COC Line #4				20				
COC Line #5	THE P	79 74		- PITTS				
COC Line #6								
COC Line #7				1				721
COC Line #8							LIE T	
COC Line #9		0118			1 19 17		77 11 4	15,447
COC Line #10								

Container Size (mL)	Original Vol. of Preservative (mL) NaOH			
Container Type 5				
500				
1000	5.0			
Container Type 4	H ₂ SO ₄			
125	0.5			
250	1.0			
500	2.0			
1000	4.0			
Container Type 13	H ₂ SO ₄			
500	2.5			