



August 1, 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

The Word of Truth (WOT) - Building 1

4900 Lovett Street

Detroit, Michigan 48210

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-WF-P-WOT (Water Faucet - Kitchen)	<0.0010 mg/L	0.015 mg/L
1-WF-F-WOT (Water Faucet - Kitchen)	NA	0.015 mg/L
2-WF-P-WOT (Water Fountain – Girl's Bathroom)	<0.0010 mg/L	0.015 mg/L
2-WF-F-WOT (Water Fountain – Girl's Bathroom)	NA	0.015 mg/L
3-WC-P-WOT (Water Cooler –Main Hallway)	<0.0010 mg/L	0.015 mg/L
3-WC-WOT (Water Cooler –Main Hallway)	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

APPENDIX A LABORATORY ANALYTICAL REPORT



June 08, 2016

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

Project: Matrix Human Services

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
1605670	05/27/2016	World of Truth Bldg 1

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 Services Work Order: 1605670

Project: Matrix Human Services Description: World of Truth Bldg 1
Client Sample ID: **1-WF-P-WOT water faucet in kitchen** Sampled: 05/26/16 06:29

Lab Sample ID: **1605670-01** Sampled By: ATC

Matrix: Drinking Water Received: 05/27/16 16:45

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	06/07/16 10:53	DSC	1605652

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ANALYTICAL REPORT

Client: ATC Group Services Work Order: 1605670

Project: Matrix Human Services Description: World of Truth Bldg 1
Client Sample ID: **2-WF-P-WOT water faucet in girls bathroom** Sampled: 05/26/16 06:33

Lab Sample ID: **1605670-03** Sampled By: ATC

Matrix: Drinking Water Received: 05/27/16 16:45

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	06/07/16 10:56	DSC	1605652

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ANALYTICAL REPORT

Client: ATC Group Services Work Order: 1605670

Project: Matrix Human Services Description: World of Truth Bldg 1
Client Sample ID: **3-WC-P-WOT water cooler in main hallway** Sampled: 05/26/16 06:36

Lab Sample ID: **1605670-05** Sampled By: ATC

Matrix: Drinking Water Received: 05/27/16 16:45

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	06/07/16 10:59	DSC	1605652



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: 1605652 (Metals Direct Analysis)					Analyzed: 06/07/2016	By: DSC
Method Blank		<0.0010	mg/L			0.0010
Laboratory Control Sample	0.0400	0.0386	mg/L	96	85-115	0.0010



PRETREATMENT SUMMARY PAGE

ATC Group Services Client: **Matrix Human Services** Project:

				Date & Time	
Pretreatment	Lab Sample ID	Batch	Ву	Prepared	
USEPA 600/R-94/173	1605670-01	1605652	LNS	06/02/16 08:15	
	1605670-03	1605652	LNS	06/02/16 08:15	
	1605670-05	1605652	LNS	06/02/16 08:15	



Chain of Custody Record

COC No. 160538287

Time 3 Relinquished By Date	172//	1		2 Resignational By	Time 2 R		1: Resimquished By Date		Company
lead or copper is above detection limits, please analyze flush samples WOT = World of Truth Bldg 1	or coppe	lead o	_	Comments	Cor	Carrier	How Shipped? Hand Tracking No.		Sampled By (print) Andrew Rauser Sampler's Signature
					d:			10	
								9	nije s
								00	
								7	
	×	2	X DW	637	5/26/16	TM2531 5	3-WC-F-WOT water cooler in main hallway	on.	90 06
	^	×	X DW	636	5/26/16	TM2531 5	3-WC-P-WOT water cooler in main hallway	(r)	0) 05
	×	2	X DW	634	5/26/16	TM2531 6	2-WF-F-WOT water faucet in girls bathroom	4	02 04
	^	×	X DW	633	5/26/16	TM2531 5	2-WF-P-WOT water faucet in girls bathroom	to.	01 03
	×	2	X DW	630	5/26/16	TM2531 8	1-WF-F-WOT water faucet in kitchen	2	02
	^	×	X DW	629	5/26/16	TM2531 E	1-WF-P-WOT water faucet in kitchen	1 1-WF	0 10
Number of Containers Submitted		rix.	B Matrix	Sample of Time N	Sample S Date	Cooler ID	Field Sample ID	B 8	Scriedule Matrix Sample Code Number
Container Type (corresponds to Container Packing List)	ontainer	00			Robert Smith		atcassocia	Email	1605670
		Lead - I	ments		aport To		Novi MI 48377 Phone: 248-669-5140 Fax 248-669-5147	Novi M	Jim McFadden Work Order No.
	Flush (F)	Primary (lo. / P.O. No. 188BS16284	ect N	Client Proj	Address 46555 Humboldt Drive, Ste 100 City State Zin	Address 46555 Hum City State Zin	Project Chemist
			uth Bldg	s - World of Tr	Project Name Matrix Human Services - World of Truth Bldg 1	Project Name Matrix Human	ATC Group Services	ATC Grou	VOA Rack/Tray
	H	0							

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRI LABORATORI	X Clerk QTC GRE	New / Add To	Order# 1605670				
Recorded by (initials/date)	Cooler Oty Recei	Project Chemist Sample Red IR Gun (#202) Thermometer Used Digital Thermometer Used Other (#	See Additional Cooler				
Cooler # 253 / Time 8 39 Custody Seals:	Cooler # Time Custody Seals:	Cooler # Time Custody Seals:	Cooler # Time Custody Seals:				
None Present / Intact Present / Not Intact	○ None ○ Present / Intact ○ Present / Not intact	○ None ○ Present / Intact ○ Present / Not Intact	None Present / Intact Present / Not Intact				
Coolant Type: Loose Ice Bagged Ice Blue Ice None Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Type: Loose Ice Bagged Ice Blue Ice None Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Type: Loose Ice Bagged Ice Blue Ice None Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Type: Loose Ice Bagged Ice Blue Ice None Coolant Location: Dispersed / Top / Middle / Botton				
Temp Blank Present: Yes No If Present, Temperature Blank Location is: Representative Not Representative	Temp Blank Present: Yes No If Present, Temperature Blank Location is Representative Not Representative		Temp Blank Present ☐ Yes ☐ No If Present, Temperature Blank Location is ☐ Representative ☐ Not Representative				
Coserved Correction Actual *C Factor *C Actual *C	Observed Correction Factor "C Actual "C Yemp Blank:	Observed Correction "C Factor "C Actual "C Tems Black	Observed Correction Factor *C Actual *C				
Sample 1: 25.7 0 25.7	Sample 1:	Sample 1:	Sample 1:				
Sample 2 24.6 0 24.6 Sample 3: 24.4 0 24.4	Sample 2. Sample 3:	Sample 3	Sample 3:				
3 Sample Average °C: 24.9 □ Cooler ID on COC?	3 Sample Average °C: Cooler ID on COC?	3 Sample Average *C: Cooler ID on COC?	3 Sample Average °C: Cocler ID on COC?				
VOC Trip Blank received? If any shaded a	reas checked, complete Sample	□ VOC Trip Blank received? Receiving Non-Conformance and/o	□ VOC Trip Blank received? r Inventory Form				
Paperwork Received Yes No Chain of Custody record(s)? Received for Lab Signed/Da Shipping document? Other COC Information TriMatrix COC Other COC ID Numbers:	000000000000000000000000000000000000000	☐ ☐ If either is ≥6° C, If "Yes", Project ☐ ☐ Completed Samples chemical ☐ ☐ If "No", added on ☐ ☐ Received pre-pre	served VOC soils? Ne ₂ SO ₄				
Yes No Analysis Requested? Analysis Requested? Sample ID matches COC? Sample Date and Time matches Container type completed on	COC7	Check for Short Hold-Time Prep/Analyses Bacteriological Air Bags EnCores / Methanol Pre-Preserved Formaldehyde/Aldehyde Green-tagged containers AFTER HOURS ONLY COPIES OF COC TO LAB AI NONE RECEIVED RECEIVED, COCS TO LAB					
Sample Condition Summary N/A Yes No Broken containers Missing or incomp Illegible informatio Composition Inappropriate or no Voc vials / Toxic	i/lids? plete labels? in on labels?		lank not listed on COC Delivered (Date/Time) ≤1 Hour Goal Met? Yes / No				

TRIMATRIX LABORATORIES

Receipt Log #

SAMPLE PRESERVATION VERIFICATION FORM

page _/ of _/

Work Order # 1605670

Project Chemist // // //

OC ID# /6	753X ·	28./	Adjusted by: Date:		DO NOT ADJUST pH FOR THESE CONTAINER TO					
Container Type	5 / 23	4	13		6	15		-		
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	201 9			IN ME		-67	F Y	1 34.55		
COC Line #2			1000				W			
COC Line #3			الاسارانيي	5000	/	A., .	7 TH			
COC Line #4	e 74 P				1					
COC Line #5					1/,		, d., 15			
COC Line #6			825 13	72.4	1		31			
COC Line #7										
COC Line #8			01171	18 V 18		grin e i		DO S.		
COC Line #9				To de la	I Inga					
COC Line #10	75 /		1-12-69	SIL DA	- 1931	28072				

Completed By (initials/dete

pH Strip Reagent # 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 ADJUST pH FOR THESE CONTA							TAINER TYPES
Container Type	5/23	4	13		8	15						
Tag Color	Lt. Blue	Blue	Brown		Red	Red Stripe	1.2					
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄		HNO ₃	HNO ₃						
Expected pH	>12	<2	<2		<2	<2						
COC Line #1							H-1					
COC Line #2	ad a l		W.D.			17.00	1.193	Barrish.				
COC Line #3				Mary Control			0-	100				
COC Line #4												
COC Line #5	120		ik juli T	100				177				
COC Line #6				RVIII		BUTAN		A PROPERTY				
COC Line #7		7-11										
COC Line #8												
COC Line #9				0.80				9-7-5				
COC Line #10												

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
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	H₂SO₄
500	2.5

Comments