

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
1606098	06/03/2016	Child Star Development

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.

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**
Project: School Drinking Water Testing
Client Sample ID: **1-P-F Bathroom (Single)**
Lab Sample ID: **1606098-01**
Matrix: Drinking Water

Work Order: **1606098**
Description: Child Star Development
Sampled: 06/01/16 06:55
Sampled By: ATC
Received: 06/03/16 16:05

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 15:26	MSB	1606138

ANALYTICAL REPORT

Client: **ATC Group Services**
Project: School Drinking Water Testing
Client Sample ID: **2-P-F Kitchen**
Lab Sample ID: **1606098-03**
Matrix: Drinking Water

Work Order: **1606098**
Description: Child Star Development
Sampled: 06/01/16 06:57
Sampled By: ATC
Received: 06/03/16 16:05

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 15:27	MSB	1606138

ANALYTICAL REPORT

Client: **ATC Group Services**
Project: School Drinking Water Testing
Client Sample ID: **3-P-F Bathroom (Multi)**
Lab Sample ID: **1606098-05**
Matrix: Drinking Water

Work Order: **1606098**
Description: Child Star Development
Sampled: 06/01/16 06:59
Sampled By: ATC
Received: 06/03/16 16:05

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 15:28	MSB	1606138

QUALITY CONTROL REPORT**Metals in Drinking Water by EPA 200 Series Methods**

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Lead/USEPA-200.8 Rev. 5.4

QC Batch: 1606138 (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**

Pretreatment	Lab Sample ID	Batch	By	Date & Time Prepared
USEPA 600/R-94/173	1606098-01	1606138	PNS	06/14/16 13:46
	1606098-03	1606138	PNS	06/14/16 13:46
	1606098-05	1606138	PNS	06/14/16 13:46



Chain of Custody Record

COC No. 151019155

For Lab Use Only
Cart 2

5560 Corporate Exchange Court SE, Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463 www.trimatrixlabs.com

Analyses Requested Pg. 1 of 1

VOA Rack/Tray

Client Name

Project Name

Receipt Log No.

Address

Client Project No. / P.O. No.

Project Chemist

City, State Zip

Invoice To

Work Order No.

Phone: 248 687 5140 Fax 5140

Contact/Report To

☒ Client
☐ Other (comments)

Matrix Code

Field Sample ID

Cooler ID

Sample Date

Sample Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Total

Sample Comments

Schedule

Field Sample ID

Cooler ID

Sample Date

Sample Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Total

Sample Comments

Matrix Code

Field Sample ID

Cooler ID

Sample Date

Sample Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Total

Sample Comments

Matrix Code

Field Sample ID

Cooler ID

Sample Date

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Sample Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Total

Sample Comments

Matrix Code

Field Sample ID

Cooler ID

Sample Date

Sample Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Total

Sample Comments

ORIGINAL - LABORATORY

COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST



Client ATC	New / Add To Project Chemist	Work Order # 1606098
Receipt Record Page/Line # 12-36	Sample # 01-06	

Recorded by (initials/date) WC 6.3.16	Cooler <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received 2	Thermometer Used <input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (#)	See Additional Cooler Information Form <input type="checkbox"/>
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Cooler # Im2365	Time 1655	
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1: 23.8	-	23.8
Sample 2: 23.8	-	23.8
Sample 3: 23.9	-	23.9
3 Sample Average °C: 23.8		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler # Im3573	Time 1700	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1: 22.2	-	22.2
Sample 2: 22.0	-	22.0
Sample 3: 22.2	-	22.2
3 Sample Average °C: 22.2		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler #	Time	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

Cooler #	Time	
Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C
Temp Blank:		
Sample 1:		
Sample 2:		
Sample 3:		
3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes ☒ No ☒ Chain of Custody record(s)? If No, Initiated By _____

☒ Received for Lab Signed/Date/Time?

☐ Shipping document?

☐ Other _____

COC Information

☐ TriMatrix COC ☐ Other _____

COC ID Numbers: _____

Check COC for Accuracy

Yes ☒ No ☐ Analysis Requested?

☒ Sample ID matches COC?

☒ Sample Date and Time matches COC?

☒ Container type completed on COC?

☒ All container types indicated are received?

Sample Condition Summary

N/A	Yes	No
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Broken containers/lids?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Missing or incomplete labels?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Illegible information on labels?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Low volume received?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Inappropriate or non-TriMatrix containers received?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> VOC vials / TOX containers have headspace?
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A ☒ Yes ☒ No ☐ Temperature Blank OR average sample temperature, ≥6° C?

☒ If either is ≥6° C, was thermal preservation required?

If "Yes", Project Chemist Approval Initials: _____

If "Yes" Completed Non Con Cooler - Cont Inventory Form?

Completed Sample Preservation Verification Form?

☒ Samples chemically preserved correctly?

If "No", added orange tag?

☐ Received pre-preserved VOC soils?

☐ MeOH ☐ Na₂SO₄

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological

☐ Air Bags

☐ EnCores / Methanol Pre-Preserved

☐ Formaldehyde/Aldehyde

☐ Green-tagged containers

☐ Yellow/White-tagged 1 L Ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☒ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
6.3.16 1605	6.3.16 1730	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Client ATC	Work Order # 1606098
Receipt Log # 12-36	Project Chemist GL
Completed By (initials/date) WC 6.3.16	

COC ID # 151019155				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
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				✓					
COC Line #2				✓					
COC Line #3				✓					
COC Line #4				✓					
COC Line #5				✓					
COC Line #6				✓					
COC Line #7									
COC Line #8									
COC Line #9									
COC Line #10									

pH Strip Reagent #
<input checked="" type="checkbox"/> 6040263
<input type="checkbox"/>

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 CONTAINER TYPES			
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									
COC Line #2									
COC Line #3									
COC Line #4									
COC Line #5									
COC Line #6									
COC Line #7									
COC Line #8									
COC Line #9									
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	H ₂ SO ₄
500	2.5

Comments
