

May 31, 2016

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

Project: Nuturing Nest

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
1605451	05/17/2016	Laboratory Services

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: Nuturing Nest
 Client Sample ID: **1-DWF-P-NN**
 Lab Sample ID: **1605451-01**
 Matrix: Drinking Water

Work Order: **1605451**
 Description: Laboratory Services
 Sampled: 05/11/16 06:13
 Sampled By: ATC
 Received: 05/17/16 17:47

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
Copper	0.022	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:36	MSB	1605410
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:36	MSB	1605410

ANALYTICAL REPORT

Client: **ATC Group Services**
 Project: Nuturing Nest
 Client Sample ID: **2-SF-P-NN**
 Lab Sample ID: **1605451-03**
 Matrix: Drinking Water

Work Order: **1605451**
 Description: Laboratory Services
 Sampled: 05/11/16 06:15
 Sampled By: ATC
 Received: 05/17/16 17:47

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
Copper	0.12	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:37	MSB	1605410
Lead	0.0046	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:37	MSB	1605410

ANALYTICAL REPORT

Client: **ATC Group Services**
 Project: Nuturing Nest
 Client Sample ID: **3-SF-P-NN**
 Lab Sample ID: **1605451-05**
 Matrix: Drinking Water

Work Order: **1605451**
 Description: Laboratory Services
 Sampled: 05/11/16 06:18
 Sampled By: ATC
 Received: 05/17/16 17:47

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
Copper	0.18	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:38	MSB	1605410
Lead	0.0054	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	05/27/16 12:38	MSB	1605410

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
---------	--------------	------------	--------	------	--------------	----------------	-----	------------	----

Analyte: Copper/USEPA-200.8 Rev. 5.4

QC Batch: 1605410 (Metals Direct Analysis)

Analyzed: 05/27/2016

By: MSB

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.200	0.213	mg/L	106	85-115			0.0010

Analyte: Lead/USEPA-200.8 Rev. 5.4

QC Batch: 1605410 (Metals Direct Analysis)

Analyzed: 05/27/2016

By: MSB

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	0.0396	mg/L	99	85-115			0.0010

PRETREATMENT SUMMARY PAGE

Client: **ATC Group Services**
Project: **Nuturing Nest**

Pretreatment	Lab Sample ID	Batch	By	Date & Time Prepared
USEPA 600/R-94/173	1605451-01	1605410	ARB	05/26/16 17:20
	1605451-03	1605410	ARB	05/26/16 17:20
	1605451-05	1605410	ARB	05/26/16 17:20

SAMPLE RECEIVING / LOG-IN CHECKLIST



Client: <u>CITC</u>	Work Order #: <u>11005451</u>
Receipt Record Page/Line #: <u>34-37</u>	Project Chemist: <u>JDAR</u> Sample #: _____

Recorded by (initials/date): <u>JDAR 5-17-16</u>	<input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received: <u>1</u>	<input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____)	Thermometer Used: _____ See Additional Cooler Information Form <input type="checkbox"/>
--------------------------------------------------	--------------------------------------------------------------------------------------------------------------	------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------

Cooler #	Time	Cooler #	Time	Cooler #	Time
<u>1112337</u>	<u>2207</u>				
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		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 Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None	
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom	
Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:	
<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative	
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C
Temp Blank			Temp Blank		
Sample 1: <u>22.1</u>	<u>0</u>	<u>22.1</u>	Sample 1:		
Sample 2: <u>22.2</u>	<u>0</u>	<u>22.2</u>	Sample 2:		
Sample 3: <u>22.2</u>	<u>0</u>	<u>22.2</u>	Sample 3:		
3 Sample Average °C: <u>22.2</u>			3 Sample Average °C: _____		
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?			<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: 160524969

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 type="checkbox"/>	<input type="checkbox"/> Broken containers/lids?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Missing or incomplete labels?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Illegible information on labels?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Low volume received?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Inappropriate or non-TriMatrix containers received?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> VOC vials / TOX containers have headspace?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 solis?

☐ 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): <u>5-17-16</u>	Paperwork Delivered (Date/Time): <u>5-17-16</u>	≤1 Hour Goal Met? <u>Yes</u>
---------------------------------------------	-------------------------------------------------	------------------------------

Client <u>OTC - NUTURING NEST</u>	Work Order # <u>1605451</u>
Receipt Log # <u>34-37</u>	Completed By (initials/date) <u>DN 5-17-16</u>
Project Chemist <u>[Signature]</u>	

COC ID # <u>160524969</u>				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
