



April 07, 2017

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 Pace Analytical:

Work Order	Received	Description
1703360	03/21/2017	DPS Sampson Webber

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); Georgia EPD (#026-999-161/1023062); Illinois DEP (#200026/003329); Kentucky DEP (AL123065/#0021); Michigan DPH (#0034); Minnesota DPH (#026-999-161/1023062); 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,

A handwritten signature in blue ink, appearing to read "Gary L. Wood", written over a light blue rectangular background.

Gary L. Wood
Client Services Manager



PROJECT TECHNICAL NARRATIVE(s)

Metals in Drinking Water by EPA 200 Series Methods

Narrative: This analyte was not present in this sample at a concentration greater than 100 times the MDL, therefore serial dilution is not required.

Analysis: USEPA-200.8 Rev. 5.4

Sample/Analyte: 1703360-01 1-KS-P-SW-Kitchen

Lead



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-KS-P-SW-Kitchen**
Lab Sample ID: **1703360-01**
Matrix: Drinking Water

Work Order: **1703360**
Description: DPS Sampson Webber
Sampled: 03/17/17 08:25
Sampled By: Dawn Winther
Received: 03/21/17 17:30

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	0.35	0.0050	1.3	mg/L	5	USEPA-200.8 Rev. 5.4	04/06/17 09:22	KLV	1702813
Lead	0.0012	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 15:12	KLV	1702813

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: Copper/USEPA-200.8 Rev. 5.4

QC Batch: 1702813 (Metals Direct Analysis) Analyzed: 04/05/2017 By: KLV

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	0.0401	mg/L	100	85-115			0.0010

QC Batch: 1702813 (Metals Direct Analysis) Analyzed: 04/06/2017 By: KLV

1703360-01 [1-KS-P-SW-Kitchen]

Matrix Spike	0.354	0.100	0.443	mg/L	89	70-130			0.0050
Matrix Spike Duplicate	0.354	0.100	0.432	mg/L	78	70-130	3	20	0.0050

Analyte: Lead/USEPA-200.8 Rev. 5.4

QC Batch: 1702813 (Metals Direct Analysis) Analyzed: 04/05/2017 By: KLV

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	0.0398	mg/L	99	85-115			0.0010

1703360-01 [1-KS-P-SW-Kitchen]

Matrix Spike	0.00121	0.0200	0.0213	mg/L	101	70-130			0.0010
Matrix Spike Duplicate	0.00121	0.0200	0.0213	mg/L	100	70-130	0.2	20	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	1703360-01	1702813	JBA	03/30/17 16:50

Section A
Required 0

Client information:

Company:	AIC Group Services, LLC
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Address: 46555 Humboldt Drive

NOV 11 4 03 / 1

Phone: 248-669-5140	Fax: 248-669-5147
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Requested Due Date/TAT:

Section E
Required R

Required Project Information

Report To: Robert Smith

Copy To

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Project Name:	DPS Samson Webber - Water Sampling
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Project Number: 188BS17169

Section C

Invoice Information

Attention: Robert Smith

Company Name: ATC Group Services, LLC

Address:
46555 Humboldt Dr. Novi, MI 48377

Reference:	
Pace Project:	

Face Profile #:

REGULATORY AGENCY			
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER	
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER	
Site Location			
STATE: _____			

Page: 0

[illegible]

ADDITIONAL COMMENTS

If Lead or Copper exceeds detection limits, please analyze this sample.

3 Compartment Sink - Right Faucet

Devenance 3-21-77 1730 222 JARDIN PAGE 3/21/77 1730

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dawn Winthe

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 3/17/17

Temp in °C

Received on
Ice (Y/N)Custody
Sealed Cooler
CMB

Samples Intact
0.00%



SAMPLE RECEIVING / LOG-IN CHECKLIST

Client ATC Work Order # 1703360
 Receipt Record Page/Line # 37-17 Project Chemist MD Sample #s

Recorded by (initials/date) JN 3-21-17 Qty Received 1 Thermometer Used ☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ See Additional Cooler Information Form
☐ Cooler ☐ Box ☒ Other Bag

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<u>-</u>	<u>1906</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		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 checked="" 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 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 Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		Coolant Location: Dispersed / Top / Middle / Bottom Temp Blank Present: <input type="checkbox"/> Yes <input 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	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1: <u>24.6</u>	<u>0</u>	<u>24.6</u>	Sample 1:			Sample 1:		
Sample 2: <u>24.1</u>	<u>0</u>	<u>24.1</u>	Sample 2:			Sample 2:		
Sample 3: <u>24.7</u>	<u>0</u>	<u>24.7</u>	Sample 3:			Sample 3:		
3 Sample Average °C: <u>24.5</u>			3 Sample Average °C:			3 Sample Average °C:		
<input type="checkbox"/> Cooler ID on COC?			<input type="checkbox"/> Cooler ID on COC?			<input type="checkbox"/> Cooler ID on COC?		
<input type="checkbox"/> VOC Trip Blank received?			<input type="checkbox"/> VOC Trip Blank received?			<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
☒ Pace COC ☐ Other _____
 COC ID Numbers: 16479

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
☒ Broken containers/lids?
☒ Missing or incomplete labels?
☒ Illegible information on labels?
☒ Low volume received?
☒ Inappropriate or non-Pace containers received?
☒ VOC vials / TOX containers have headspace?
☒ 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) JN 3/21/17 Paperwork Delivered (Date/Time) 3/21/17 ≤1 Hour Goal Met? Yes / No

SAMPLE PRESERVATION VERIFICATION FORM

page 1 of 1

Client: <u>QTC</u>	Work Order #: <u>1703360</u>
Receipt Log #: <u>37-17</u>	Completed By (initials/date): <u>DN 3/21/17</u>
Project Chemist: <u>[Signature]</u>	

COC ID #: <u>16479</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											

Comments:

pH Strip Reagent # / Lot #

☒ 7021862 / HC693124

☐ Other

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											

Comments:

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