



N O R T H E R N  
**Analytical Services, LLC.**  
ENVIRONMENTAL CONSULTANTS

November 14, 2017

Project No: 170229

Ali DuBois  
Muskegon Montessori Academy  
2950 McCracken Street  
Norton Shores, Michigan 49441

Re: Water Testing  
Muskegon Montessori Academy

Dear Mr. Larkin:

Please find the enclosed laboratory results from water samples Northern Analytical Services, LLC. (NAS) collected at the site. Samples were collected to determine the levels of the lead and copper present in drinking water at each active drinking fountain and sink found in the building. Testing was performed as part of an annual inspection of your building.

Samples were collected on September 13<sup>th</sup>, 2017 by Juston Rehkopf, a State of Michigan accredited Lead Based Paint Inspector (P05558) of NAS. Samples were collected by filling a single 250 milliliter container, pre-treated by the laboratory with acid, at each faucet/drinking fountain and delivering them to the laboratory for analysis. Sample collection was conducted in the morning prior to the water being used by occupants as a "first draw" sample. NAS did not flush or otherwise run each faucet or fountain prior to sample collection; to our knowledge each faucet and fountain sat dormant for at least 6 hours prior to sample collection.

Once delivered to the laboratory (Pace Analytical), samples were analyzed for the presence of copper and lead in accordance with US EPA method 200.8. A copy of the laboratory report is attached.

According to the US EPA's Lead and Copper rule, which applies to schools and child care facilities that meet the definition of a public water system, the practical quantitation limit (PQL) for lead is 0.005 micrograms of lead per liter of water (mg/L) and 0.050 mg/L for copper. The PQL is the concentration of lead or copper that can be reliably measured within specified limits during routine laboratory operating conditions using approved methods. The action level is the concentration of lead or copper in potable water which determines whether a system may be required to install corrosion control treatment, collect water quality parameter samples, collect source water samples, replace lead service lines, and /or deliver public education about lead. The action level for lead is 0.015 mg/L and 1.3 mg/L for copper.

Essentially the PQL is the limit of detection and the Action Level is the level at which steps should be taken in order to minimize or eliminate exposure to lead or copper. Actions to be taken when the action level is exceeded include the following:

- Public education-provide information to building occupants about the water quality.
- Water quality parameter (WQP) monitoring-establish a routine monitoring program.
- Source water monitoring and source water treatment if necessary.
- Corrosion control treatment (CCT).

Choice Schools Associates  
 Muskegon Montessori Academy  
 Water Quality Testing  
 Project No. 170239  
 November 14, 2017

The following is a summary of our findings:

Sample ID	Location	Copper Concentration (mg/L)	Lead Concentration (mg/L)
MMA-1	See Attached Drawing	0.24*	0.0015
MMA-2	See Attached Drawing	0.22*	0.047**
MMA-3	See Attached Drawing	0.27*	0.0022
MMA-4	See Attached Drawing	0.018	ND
MMA-5	See Attached Drawing	0.015	ND
MMA-6	See Attached Drawing	0.017	ND
MMA-7	See Attached Drawing	0.030	ND
MMA-8	See Attached Drawing	0.024	0.0013

\* exceeds the PQL for lead or copper.

\*\*exceeds the action level for lead or copper.

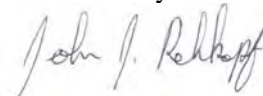
Of the 8 samples collected, one of those samples exceeded the action level for lead. Three samples exceeded the PQL for copper.

Based on these results, NAS recommends the following actions:

- Immediately post the public education poster found in appendix A of the attached Lead and Copper Rule near each faucet/fountain that exceeded the Action Level for lead and distribute a copy of this information in pamphlet form to all building occupants.
- Immediately take the faucets/fountains described in sample MMA-2 off line. Flush this unit (allow water to run for at least 5 minutes) and re-test no sooner than 8 hours after flushing.
- Test the water source to determine the level of lead and copper present.
- Consider replacing this unit if the re-test results exceed the PQL level.
- Consider the installation of point source (faucet/drinking fountain) water filtration for lead.
- Consider the replacement of all water pipes and fixtures as a permanent solution.
- Re-test all fixtures at least annually and following any major changes to the system.

NAS appreciates the opportunity to provide these services and looks forward to assisting you with any re-testing needed. Please do not hesitate to contact me with any questions.

Sincerely



John J. Rehkopf  
 President

September 29, 2017

John Rehkopf  
Northern Analytical Services  
14870 225th Avenue  
Big Rapids, MI 49307

RE: Project: Muskegon Montessori Academy  
Pace Project No.: 462623

Dear John Rehkopf:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Gary Wood  
gary.wood@pacelabs.com  
(616)940-4206  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: Muskegon Montessori Academy  
Pace Project No.: 462623

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### Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512  
ISO/IEC 17025:2005, Certificate #AT-1542.01  
DoD-ELAP, Certificate #ADE-1542  
Minnesota Department of Health, Certificate #1177224  
Arkansas Department of Environmental Quality, Certificate #17-046-0  
Georgia Environmental Protection Division, Stipulation  
Illinois Environmental Protection Agency, Certificate #004097  
Michigan Department of Environmental Quality, Laboratory #0034

New York State Department of Health, Serial #56192 and 56193  
North Carolina Division of Water Resources, Certificate #659  
Virginia Department of General Services, Certificate #9028  
Wisconsin Department of Natural Resources, Laboratory #999472650  
U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-14-00305

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
462623001	MMA1	Drinking Water	09/13/17 08:50	09/15/17 09:51
462623002	MMA2	Drinking Water	09/13/17 08:50	09/15/17 09:51
462623003	MMA3	Drinking Water	09/13/17 08:51	09/15/17 09:51
462623004	MMA4	Drinking Water	09/13/17 08:53	09/15/17 09:51
462623005	MMA5	Drinking Water	09/13/17 08:56	09/15/17 09:51
462623006	MMA6	Drinking Water	09/13/17 08:56	09/15/17 09:51
462623007	MMA7	Drinking Water	09/13/17 08:58	09/15/17 09:51
462623008	MMA8	Drinking Water	09/13/17 08:58	09/15/17 09:51

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### SAMPLE ANALYTE COUNT

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
462623001	MMA1	EPA 200.8	CKD	2
462623002	MMA2	EPA 200.8	CKD	2
462623003	MMA3	EPA 200.8	CKD	2
462623004	MMA4	EPA 200.8	CKD	2
462623005	MMA5	EPA 200.8	CKD	2
462623006	MMA6	EPA 200.8	CKD	2
462623007	MMA7	EPA 200.8	CKD	2
462623008	MMA8	EPA 200.8	CKD	2

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## ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA1		Lab ID: 462623001		Collected: 09/13/17 08:50	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Copper	<b>0.24</b>	mg/L	0.0050	5		09/28/17 18:05	7440-50-8	
Lead	<b>0.0015</b>	mg/L	0.0010	1		09/28/17 14:55	7439-92-1	

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA2		Lab ID: 462623002	Collected: 09/13/17 08:50	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Copper	<b>0.22</b>	mg/L	0.0050	5		09/28/17 18:06	7440-50-8	
Lead	<b>0.047</b>	mg/L	0.0010	1		09/28/17 14:56	7439-92-1	

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## ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA3		Lab ID: 462623003		Collected: 09/13/17 08:51		Received: 09/15/17 09:51		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>0.27</b>	mg/L	0.0050	5		09/28/17 18:07	7440-50-8		
Lead	<b>0.0022</b>	mg/L	0.0010	1		09/28/17 15:00	7439-92-1		

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA4		Lab ID: 462623004	Collected: 09/13/17 08:53	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Copper	<b>0.018</b>	mg/L	0.0010	1		09/28/17 15:01	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 15:01	7439-92-1	

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA5		Lab ID: 462623005		Collected: 09/13/17 08:56		Received: 09/15/17 09:51		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>0.015</b>	mg/L	0.0010	1		09/28/17 15:02	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 15:02	7439-92-1		

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy  
Pace Project No.: 462623

Sample: MMA6		Lab ID: 462623006	Collected: 09/13/17 08:56	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>0.017</b>	mg/L	0.0010	1		09/28/17 15:03	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 15:03	7439-92-1		

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA7		Lab ID: 462623007		Collected: 09/13/17 08:58		Received: 09/15/17 09:51		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>0.030</b>	mg/L	0.0010	1		09/28/17 15:04	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 15:04	7439-92-1		

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### ANALYTICAL RESULTS

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Sample: MMA8		Lab ID: 462623008	Collected: 09/13/17 08:58	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Copper	<b>0.024</b>	mg/L	0.0010	1		09/28/17 15:06	7440-50-8	
Lead	<b>0.0013</b>	mg/L	0.0010	1		09/28/17 15:06	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Muskegon Montessori Academy  
Pace Project No.: 462623

QC Batch: 5701 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 462623001, 462623002, 462623003, 462623004, 462623005, 462623006, 462623007, 462623008

METHOD BLANK: 23257 Matrix: Water  
Associated Lab Samples: 462623001, 462623002, 462623003, 462623004, 462623005, 462623006, 462623007, 462623008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	09/28/17 14:40	
Lead	mg/L	ND	0.0010	09/28/17 14:40	

LABORATORY CONTROL SAMPLE: 23258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.021	105	85-115	
Lead	mg/L	.02	0.020	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23259 23260

Parameter	Units	462621021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.089	.1	.1	0.19	0.19	105	103	70-130	1	20	
Lead	mg/L	0.0031	.02	.02	0.027	0.027	121	121	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23262 23263

Parameter	Units	462621022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.19	.1	.1	0.29	0.28	96	94	70-130	1	20	
Lead	mg/L	0.0038	.02	.02	0.027	0.028	115	121	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Muskegon Montessori Academy  
Pace Project No.: 462623

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Muskegon Montessori Academy

Pace Project No.: 462623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
462623001	MMA1	EPA 200.8	5701		
462623002	MMA2	EPA 200.8	5701		
462623003	MMA3	EPA 200.8	5701		
462623004	MMA4	EPA 200.8	5701		
462623005	MMA5	EPA 200.8	5701		
462623006	MMA6	EPA 200.8	5701		
462623007	MMA7	EPA 200.8	5701		
462623008	MMA8	EPA 200.8	5701		

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MO#: 462623



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Northern Analytical Address: 14870 225th Avenue Report To: John Reheopf Copy To: John Reheopf Invoice Information: Attention: see section A Company Name: see section A Address: see section A Page: 1 of 1

Section B Required Project Information: Project Name: Muskegon Montessori Academy Project Number: 23-7 Regulatory Agency: MD NPDES  UST  RCRA  GROUND WATER  DRINKING WATER  OTHER  Requested Analysis Filtered (Y/N): MD Page: 2166466 of 2166466

Section C Invoice Information: Attention: see section A Company Name: see section A Address: see section A Page Quote Reference: see section A Page Project Manager: see section A Page Profile #: see section A Regulatory Agency: MD NPDES  UST  RCRA  GROUND WATER  DRINKING WATER  OTHER  Requested Analysis Filtered (Y/N): MD Page: 2166466 of 2166466

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>				
1	MN A 1	DW	DW	G	9-13-17		8:50	1											
2	MN A 2	DW	DW	G			8:50	1											
3	MN A 3	DW	DW	G			8:51	1											
4	MN A 4	DW	DW	G			8:53	1											
5	MN A 5	DW	DW	G			8:56	1											
6	MN A 6	DW	DW	G			8:56	1											
7	MN A 7	DW	DW	G			8:58	1											
8	MN A 8	DW	DW	G			8:58	1											
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS: Justilly RELINQUISHED BY / AFFILIATION: Justilly DATE: 9-13-17 TIME: 8:58 ACCEPTED BY / AFFILIATION: John Reheopf DATE: 9/13/17 TIME: 0951 SAMPLE CONDITIONS: Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

ORIGINAL SAMPLER NAME AND SIGNATURE: Justilly PRINT Name of SAMPLER: Justilly SIGNATURE of SAMPLER: Justilly DATE Signed (MM/DD/YY): 9-13-17 DATE Signed (MM/DD/YY): 9-13-17

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020rev.07, 15-May-2007

# SAMPLE RECEIVING / LOG-IN CHECKLIST

*Pace Analytical*

Client: *Northern Analytical*  
 Receipt Record Page/Line #: *23-7*

Work Order #:

New / Add To Project Chemist: \_\_\_\_\_  
 Sample #s: \_\_\_\_\_

Recorded by (initials/date): *LR 9/15/17*

Cooler      Qty Received: *1*  
 Box  
 Other

IR Gun (#202)  
 Thermometer Used:  Digital Thermometer (#54)       See Additional Cooler Information Form  
 Other (# \_\_\_\_\_)

Cooler # *Pace*      Time *1430*

Custody Seals:  
 None  
 Present / Intact  
 Present / Not Intact

Coolant Type:  
 Loose Ice  
 Bagged Ice  
 Blue Ice  
 None

Coolant Location:  
 Dispersed / Top / Middle / Bottom  
 Temp Blank Present:  Yes  No  
 If Present, Temperature Blank Location is:  
 Representative  Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:	<i>22.3</i>	<i>-</i>	<i>22.3</i>
Sample 2:	<i>22.2</i>	<i>-</i>	<i>22.2</i>
Sample 3:	<i>22.2</i>	<i>-</i>	<i>22.2</i>
3 Sample Average °C: <i>22.2</i>			

Cooler ID on COC?  
 VOC Trip Blank received?

Cooler # *Pace*      Time *1440*

Custody Seals:  
 None  
 Present / Intact  
 Present / Not Intact

Coolant Type:  
 Loose Ice  
 Bagged Ice  
 Blue Ice  
 None

Coolant Location:  
 Dispersed / Top / Middle / Bottom  
 Temp Blank Present:  Yes  No  
 If Present, Temperature Blank Location is:  
 Representative  Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:	<i>23.3</i>	<i>-</i>	<i>23.3</i>
Sample 2:	<i>23.2</i>	<i>-</i>	<i>23.2</i>
Sample 3:	<i>23.3</i>	<i>-</i>	<i>23.3</i>
3 Sample Average °C: <i>23.3</i>			

Cooler ID on COC?  
 VOC Trip Blank received?

Cooler # \_\_\_\_\_      Time \_\_\_\_\_

Custody Seals:  
 None  
 Present / Intact  
 Present / Not Intact

Coolant Type:  
 Loose Ice  
 Bagged Ice  
 Blue Ice  
 None

Coolant Location:  
 Dispersed / Top / Middle / Bottom  
 Temp Blank Present:  Yes  No  
 If Present, Temperature Blank Location is:  
 Representative  Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:			
Sample 2:			
Sample 3:			
3 Sample Average °C: _____			

Cooler ID on COC?  
 VOC Trip Blank received?

Cooler # \_\_\_\_\_      Time \_\_\_\_\_

Custody Seals:  
 None  
 Present / Intact  
 Present / Not Intact

Coolant Type:  
 Loose Ice  
 Bagged Ice  
 Blue Ice  
 None

Coolant Location:  
 Dispersed / Top / Middle / Bottom  
 Temp Blank Present:  Yes  No  
 If Present, Temperature Blank Location is:  
 Representative  Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:			
Sample 2:			
Sample 3:			
3 Sample Average °C: _____			

Cooler ID on COC?  
 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: \_\_\_\_\_

**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-Conformity Cooler - Cont Inventory Form?  
 Completed Sample Preservation Verification Form?  
 Samples chemically preserved correctly?  
 If "No", added orange tag?  
 Received pre-preserved VOC soils?  
 MeOH       Na<sub>2</sub>SO<sub>4</sub>

**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?
<i>9/15/17 0951</i>	<i>9/15/17 1506</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

# SAMPLE PRESERVATION VERIFICATION FORM



page \_\_\_\_ of \_\_\_\_

Client: <i>Northern Analytical</i> Receipt Log #: <i>23-7</i>	Work Order # _____ Project Chemist _____ Completed By (initials/date): <i>LA 9/15/17</i>
--	--

COC ID # <i>2166466</i>				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 <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>		HNO <sub>3</sub>	HNO <sub>3</sub>					
Expected pH	<b>&gt;12</b>	<b>&lt;2</b>	<b>&lt;2</b>		<b>&lt;2</b>	<b>&lt;2</b>					
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											
COC Line #11											
COC Line #12											

**pH Strip Reagent # / Lot #**

**HC601354**

**Other**

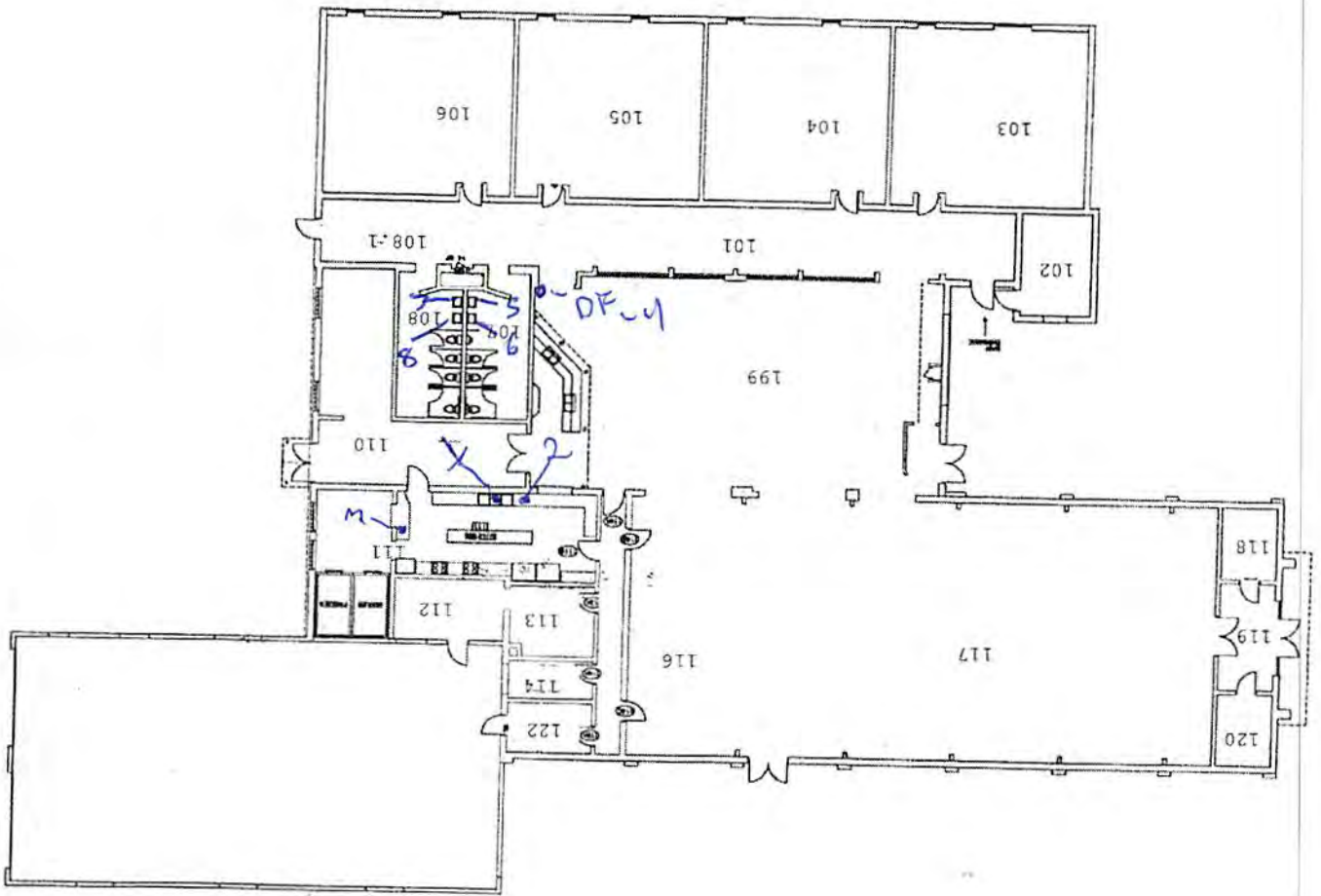
**Aqueous Samples:** For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the 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.

Comments

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 <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>		HNO <sub>3</sub>	HNO <sub>3</sub>					
Expected pH	<b>&gt;12</b>	<b>&lt;2</b>	<b>&lt;2</b>		<b>&lt;2</b>	<b>&lt;2</b>					
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											
COC Line #11											
COC Line #12											

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

Comments



Muskegon Montessori Academy for Environmental Change

Est: 2013

- 1 - kitchen - 8:50
- 2 - kitchen - 8:50
- 3 - kitchen - 8:51
- 4 - DF - 8:53
- 5 - Boys - 8:56
- 6 - Boys - 8:56
- 7 - girls - 8:58
- 8 - girls - 8:58