



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

October 23, 2017

Project No: 170200

Cheryl Paul  
Bradford Academy  
24218 Garner  
Southfield, Michigan 48033

Re: Water Testing  
Bradford Academy – 2<sup>nd</sup> Round

Dear Mrs. Paul:

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 October 5<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 e 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  
Bradford Academy  
Water Quality Testing – 2<sup>nd</sup> Round  
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The following is a summary of our findings:

Sample ID	Location	Copper Concentration (mg/L)	Lead Concentration (mg/L)
BA2-2	See Attached Drawing	0.33*	ND
BA14-2	See Attached Drawing	0.058*	ND
BA25-2	See Attached Drawing	0.044	ND
BA34-2	See Attached Drawing	0.20*	0.0016
BA55-2	See Attached Drawing	0.39*	0.011*
BA-91-2	See Attached Drawing	0.27*	0.0063*
BA94-2	See Attached Drawing	0.18*	0.0082*
BA95-2	See Attached Drawing	0.14*	0.0099*
BA96-2	See Attached Drawing	0.21*	0.0031
BA104-2	See Attached Drawing	0.99*	0.019**
BA106-2	See Attached Drawing	0.10*	ND
BA111-2	See Attached Drawing	0.13*	ND
BA116-2	See Attached Drawing	0.30*	0.0069*
BA122-2	See Attached Drawing	0.72*	0.0022
BA151-2	See Attached Drawing	0.43*	0.0017

\* exceeds the PQL for lead or copper.

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

Of the 15 samples collected, one exceeded the Action level for lead, six exceeded the PQL for lead, and 14 exceeded the PQL for copper; none of the samples exceeded the PQL for copper.

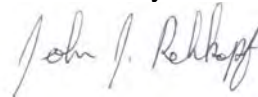
Choice Schools Associates  
Bradford Academy  
Water Quality Testing – 2<sup>nd</sup> Round  
Project No. 170200  
October 23, 2017

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 and distribute a copy of this information in pamphlet form to all building occupants.
- Immediately take the faucets/fountains described in sample BA-116-2 off line. Because this was a re-test following a flush, the issue is likely in the faucet and more aggressive measures will be required to repair. Repairs could include: faucet replacement, installation of a water filter at the faucet, or replacement of the plumbing leading to the faucet.
- 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

October 20, 2017

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

RE: Project: Bradford Academy  
Pace Project No.: 463132

Dear John Rehkopf:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 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

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## CERTIFICATIONS

Project: Bradford Academy

Pace Project No.: 463132

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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: Bradford Academy  
Pace Project No.: 463132

Lab ID	Sample ID	Matrix	Date Collected	Date Received
463132001	BA2-2	Drinking Water	10/05/17 08:11	10/07/17 10:30
463132002	BA14-2	Drinking Water	10/05/17 08:13	10/07/17 10:30
463132003	BA25-2	Drinking Water	10/05/17 08:18	10/07/17 10:30
463132004	BA34-2	Drinking Water	10/05/17 08:08	10/07/17 10:30
463132005	BA55-2	Drinking Water	10/05/17 08:24	10/07/17 10:30
463132006	BA91-2	Drinking Water	10/05/17 08:49	10/07/17 10:30
463132007	BA94-2	Drinking Water	10/05/17 08:50	10/07/17 10:30
463132008	BA95-2	Drinking Water	10/05/17 08:50	10/07/17 10:30
463132009	BA96-2	Drinking Water	10/05/17 08:50	10/07/17 10:30
463132010	BA104-2	Drinking Water	10/05/17 08:32	10/07/17 10:30
463132011	BA106-2	Drinking Water	10/05/17 08:33	10/07/17 10:30
463132012	BA111-2	Drinking Water	10/05/17 08:38	10/07/17 10:30
463132013	BA116-2	Drinking Water	10/05/17 08:34	10/07/17 10:30
463132014	BA122-2	Drinking Water	10/05/17 08:29	10/07/17 10:30
463132015	BA151-2	Drinking Water	10/05/17 08:53	10/07/17 10:30

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### SAMPLE ANALYTE COUNT

Project: Bradford Academy

Pace Project No.: 463132

Lab ID	Sample ID	Method	Analysts	Analytes Reported
463132001	BA2-2	EPA 200.8	CKD	2
463132002	BA14-2	EPA 200.8	CKD	2
463132003	BA25-2	EPA 200.8	CKD	2
463132004	BA34-2	EPA 200.8	CKD	2
463132005	BA55-2	EPA 200.8	CKD	2
463132006	BA91-2	EPA 200.8	CKD	2
463132007	BA94-2	EPA 200.8	CKD	2
463132008	BA95-2	EPA 200.8	CKD	2
463132009	BA96-2	EPA 200.8	CKD	2
463132010	BA104-2	EPA 200.8	CKD	2
463132011	BA106-2	EPA 200.8	CKD	2
463132012	BA111-2	EPA 200.8	CKD	2
463132013	BA116-2	EPA 200.8	CKD	2
463132014	BA122-2	EPA 200.8	CKD	2
463132015	BA151-2	EPA 200.8	CKD	2

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## ANALYTICAL RESULTS

Project: Bradford Academy  
Pace Project No.: 463132

Sample: BA2-2		Lab ID: 463132001	Collected: 10/05/17 08:11	Received: 10/07/17 10:30	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>0.33</b>	mg/L	0.0050	5		10/12/17 13:01	7440-50-8		
Lead	ND	mg/L	0.0010	1		10/12/17 12:07	7439-92-1		

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA14-2		Lab ID: 463132002		Collected: 10/05/17 08:13	Received: 10/07/17 10:30	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>0.058</b>	mg/L	0.0010	1		10/12/17 12:12	7440-50-8	
Lead	ND	mg/L	0.0010	1		10/12/17 12:12	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA25-2		Lab ID: 463132003	Collected: 10/05/17 08:18	Received: 10/07/17 10:30	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>0.044</b>	mg/L	0.0010	1		10/12/17 12:19	7440-50-8		
Lead	ND	mg/L	0.0010	1		10/12/17 12:19	7439-92-1		

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## ANALYTICAL RESULTS

Project: Bradford Academy  
Pace Project No.: 463132

Sample: BA34-2		Lab ID: 463132004	Collected: 10/05/17 08:08	Received: 10/07/17 10:30	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>0.20</b>	mg/L	0.0050	5		10/12/17 13:06	7440-50-8		
Lead	<b>0.0016</b>	mg/L	0.0010	1		10/12/17 12:20	7439-92-1		

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### ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA55-2		Lab ID: 463132005	Collected: 10/05/17 08:24	Received: 10/07/17 10:30	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>0.39</b>	mg/L	0.0050	5		10/12/17 13:07	7440-50-8	
Lead	<b>0.011</b>	mg/L	0.0010	1		10/12/17 12:21	7439-92-1	

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### ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA91-2		Lab ID: 463132006	Collected: 10/05/17 08:49	Received: 10/07/17 10:30	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		10/12/17 13:08	7440-50-8	
Lead	<b>0.0063</b>	mg/L	0.0010	1		10/12/17 12:22	7439-92-1	

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### ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA94-2		Lab ID: 463132007	Collected: 10/05/17 08:50	Received: 10/07/17 10:30	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>0.18</b>	mg/L	0.0050	5		10/12/17 13:09	7440-50-8	
Lead	<b>0.0082</b>	mg/L	0.0010	1		10/12/17 12:23	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy  
Pace Project No.: 463132

Sample: BA95-2		Lab ID: 463132008	Collected: 10/05/17 08:50	Received: 10/07/17 10:30	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>0.14</b>	mg/L	0.0050	5		10/12/17 13:10	7440-50-8		
Lead	<b>0.0099</b>	mg/L	0.0010	1		10/12/17 12:25	7439-92-1		

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### ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA96-2		Lab ID: 463132009	Collected: 10/05/17 08:50	Received: 10/07/17 10:30	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>0.21</b>	mg/L	0.0050	5		10/12/17 13:11	7440-50-8	
Lead	<b>0.0031</b>	mg/L	0.0010	1		10/12/17 12:26	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA104-2		Lab ID: 463132010	Collected: 10/05/17 08:32	Received: 10/07/17 10:30	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>0.99</b>	mg/L	0.020	20		10/12/17 13:16	7440-50-8	
Lead	<b>0.019</b>	mg/L	0.0010	1		10/12/17 12:27	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA106-2		Lab ID: 463132011		Collected: 10/05/17 08:33	Received: 10/07/17 10:30	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>0.10</b>	mg/L	0.0050	5		10/12/17 13:17	7440-50-8	
Lead	ND	mg/L	0.0010	1		10/12/17 12:28	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy  
Pace Project No.: 463132

Sample: BA111-2		Lab ID: 463132012		Collected: 10/05/17 08:38	Received: 10/07/17 10:30	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>0.13</b>	mg/L	0.0050	5		10/12/17 13:18	7440-50-8	
Lead	ND	mg/L	0.0010	1		10/12/17 12:29	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA116-2		Lab ID: 463132013	Collected: 10/05/17 08:34	Received: 10/07/17 10:30	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>0.30</b>	mg/L	0.0050	5		10/12/17 13:19	7440-50-8	
Lead	<b>0.0069</b>	mg/L	0.0010	1		10/12/17 12:33	7439-92-1	

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## ANALYTICAL RESULTS

Project: Bradford Academy  
Pace Project No.: 463132

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Sample: BA122-2</b>		<b>Lab ID: 463132014</b>		Collected: 10/05/17 08:29	Received: 10/07/17 10:30	Matrix: Drinking Water			
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8							
Copper	<b>0.72</b>	mg/L	0.010	10		10/12/17 13:20	7440-50-8		
Lead	<b>0.0022</b>	mg/L	0.0010	1		10/12/17 12:34	7439-92-1		

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## ANALYTICAL RESULTS

Project: Bradford Academy

Pace Project No.: 463132

Sample: BA151-2		Lab ID: 463132015		Collected: 10/05/17 08:53	Received: 10/07/17 10:30	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>0.43</b>	mg/L	0.010	10		10/12/17 13:21	7440-50-8	
Lead	<b>0.0017</b>	mg/L	0.0010	1		10/12/17 12:35	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Bradford Academy  
Pace Project No.: 463132

QC Batch: 6698 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep  
Associated Lab Samples: 463132001, 463132002, 463132003, 463132004, 463132005, 463132006, 463132007, 463132008, 463132009, 463132010, 463132011, 463132012, 463132013, 463132014, 463132015

METHOD BLANK: 27441 Matrix: Water  
Associated Lab Samples: 463132001, 463132002, 463132003, 463132004, 463132005, 463132006, 463132007, 463132008, 463132009, 463132010, 463132011, 463132012, 463132013, 463132014, 463132015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	10/12/17 12:05	
Lead	mg/L	ND	0.0010	10/12/17 12:05	

LABORATORY CONTROL SAMPLE: 27442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.021	103	85-115	
Lead	mg/L	.02	0.020	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27443 27444

Parameter	Units	463132001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.33	.1	.1	0.42	0.42	90	96	70-130	1	20	
Lead	mg/L	ND	.02	.02	0.024	0.025	116	123	70-130	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27446 27447

Parameter	Units	463132002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.058	.02	.02	0.074	0.080	80	110	70-130	8	20	
Lead	mg/L	ND	.02	.02	0.024	0.025	119	125	70-130	5	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: Bradford Academy

Pace Project No.: 463132

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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: Bradford Academy

Pace Project No.: 463132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
463132001	BA2-2	EPA 200.8	6698		
463132002	BA14-2	EPA 200.8	6698		
463132003	BA25-2	EPA 200.8	6698		
463132004	BA34-2	EPA 200.8	6698		
463132005	BA55-2	EPA 200.8	6698		
463132006	BA91-2	EPA 200.8	6698		
463132007	BA94-2	EPA 200.8	6698		
463132008	BA95-2	EPA 200.8	6698		
463132009	BA96-2	EPA 200.8	6698		
463132010	BA104-2	EPA 200.8	6698		
463132011	BA106-2	EPA 200.8	6698		
463132012	BA111-2	EPA 200.8	6698		
463132013	BA116-2	EPA 200.8	6698		
463132014	BA122-2	EPA 200.8	6698		
463132015	BA151-2	EPA 200.8	6698		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



463132

Information:

Section C

Page: 1 of 2

Company: **Northern Analytical** Report To: **John Rehkopf**  
 Address: **14870 225th Ave** Copy To:  
 Email: **Big Rapids MI 49307** Purchase Order No.:  
 Phone: **231-679-0005** Fax: **231-679-0005** Project Name: **Bretford Academy**  
 Requested Due Date/AT: Project Number:

Invoice Information:  
 Attention: **See Section A**  
 Company Name:  
 Address:  
 Page Quote:  
 Reference:  
 Project Manager:  
 Pace Profile #:

REGULATORY AGENCY:  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location STATE: **MI**

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)	SAMPLE CONDITIONS
					COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME		
1	BA 2-2			G	8:10-5	8:11		1						
2	BA 14-2			G	8:13									
3	BA 25-2			G	8:18									
4	BA 34-2			G	8:08									
5	BA 55-2			G	8:24									
6	BA 91-2			G	8:49									
7	BA 94-2			G	8:50									
8	BA 95-2			G	8:50									
9	BA 96-2			G	8:50									
10	BA 104-2			G	8:32									
11	BA 106-2			G	8:33									
12	BA 111-2			G	8:38									

ADDITIONAL COMMENTS: **John Rehkopf**

RELINQUISHED BY / AFFILIATION: **John Rehkopf** DATE: **10-7-17** TIME: **10:30**

ACCEPTED BY / AFFILIATION: **[Signature]** DATE: **10/11/17** TIME: **10:30**

Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

SAMPLER NAME AND SIGNATURE: **John Rehkopf** DATE Signed (MM/DD/YY): **10-7-17**

PRINT Name of SAMPLER: **John Rehkopf** SIGNATURE of SAMPLER: **[Signature]**

ORIGINAL

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.

**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: See page 1 Address: See page 1

**Section B** Required Project Information: Report To: Copy To: Project Name: Sturtevant Academy Project Number: 2183573

**Section C** Invoice Information: Attention: Sturtevant Academy Company Name: Sturtevant Academy Address: Sturtevant Academy Pace Quote Reference: Sturtevant Academy Pace Project Manager: Sturtevant Academy Pace Profile #: Sturtevant Academy

Page: 2 of 2  
REGULATORY AGENCY: 2183573  
NPDES  GROUND WATER  DRINKING WATER  
UST  RORA  OTHER   
Site Location STATE: MJ

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE DW WT WW P SL OL WP AR TS OT	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)	SAMPLE CONDITIONS
					COMPOSITE START	COMPOSITE END/GRAB							
1	BA116-2			G	10-5	8:34		1					
2	BA122-2			G	10-5	8:24		1					463132-13
3	BA151-2			G	10-5	8:53		1					-14 -15
4													
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS: Spec - Metlogy

RELINQUISHED BY / AFFILIATION: Spec Metlogy DATE: 10-7-17 TIME: 10:30

ACCEPTED BY / AFFILIATION: [Signature] DATE: 10/11/17 TIME: 1030

Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

REGULATORY AGENCY: 2183573

# SAMPLE RECEIVING / LOG-IN CHECKLIST



Client <b>Northern Analytical - BA</b>	New / Add To <input checked="" type="checkbox"/>	Work Order #: <b>463132</b>
Receipt Record Page/Line # <b>11-2</b>	Project Chemist <b>[Signature]</b>	Sample #

Recorded by (initials/date) <b>[Signature] 10/7/17</b>	Cooler <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Qty Received <b>1</b>	IR Gun (#202) <input checked="" type="checkbox"/> Thermometer Used <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____)	<input type="checkbox"/> See Additional Cooler Information Form
---	--	--------------------------	---	---

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<b>000054</b>	<b>1038</b>							
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 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		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input checked="" 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		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		
If Present, Temperature Blank Location is: <input checked="" type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		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	Actual °C
Temp Blank: <b>24.3</b>	<b> </b>	<b>24.3</b>	Temp Blank:			Temp Blank:		
Sample 1: <b>24.0</b>		<b>24.0</b>	Sample 1:			Sample 1:		
Sample 2: <b>22.9</b>		<b>22.9</b>	Sample 2:			Sample 2:		
Sample 3: <b>23.1</b>		<b>23.1</b>	Sample 3:			Sample 3:		
3 Sample Average °C: <b>23.3</b>			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:  
**2183574, 2183573**

**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  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) <b>[Signature] 10/7/17</b>	Paperwork Delivered (Date/Time) <b>[Signature] 10/7/17</b>	≤1 Hour Goal Met? <b>Yes / No</b>
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# SAMPLE PRESERVATION VERIFICATION FORM

page 1 of 1

Client <b>Northern Analytical - BA</b>	Work Order # <b>463132</b>
Receipt Log # <b>11-2</b>	Completed By (initials/date) <b>TS 10/7/17</b>
Project Chemist	

COC ID # <b>2183574</b>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	<b>6</b>	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 #
<input checked="" type="checkbox"/> <b>HC601354</b>
<input type="checkbox"/> <b>Other</b>

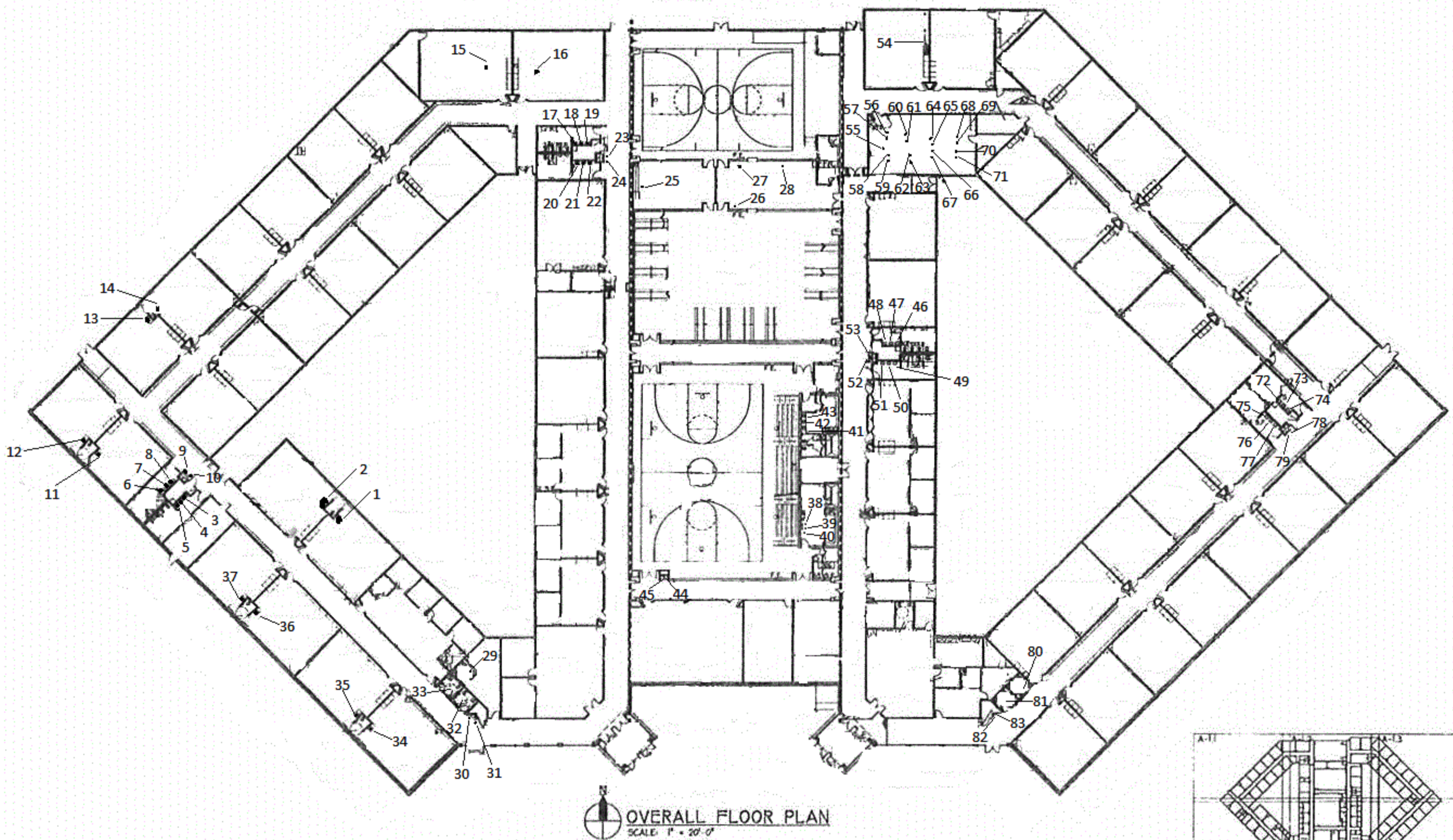
**Aqueous Samples:** For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the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

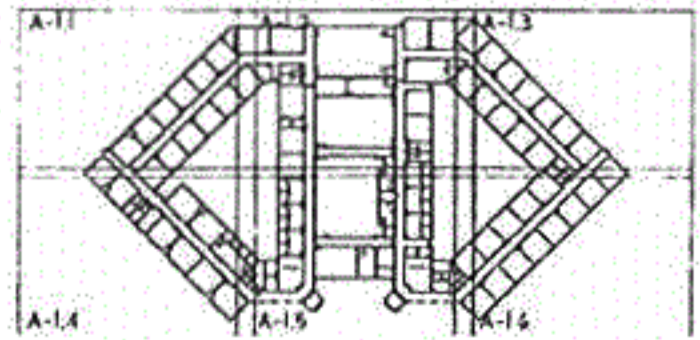
COC ID # <b>2183573</b>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	<b>6</b>	15				
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe				
Preservative	NaOH	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HNO <sub>3</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



OVERALL FLOOR PLAN  
SCALE: 1" = 20'-0"

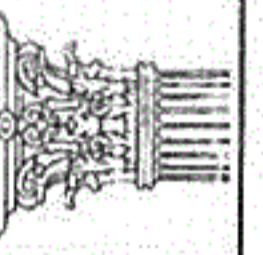


KEY PLAN  
SCALE: N.T.S.

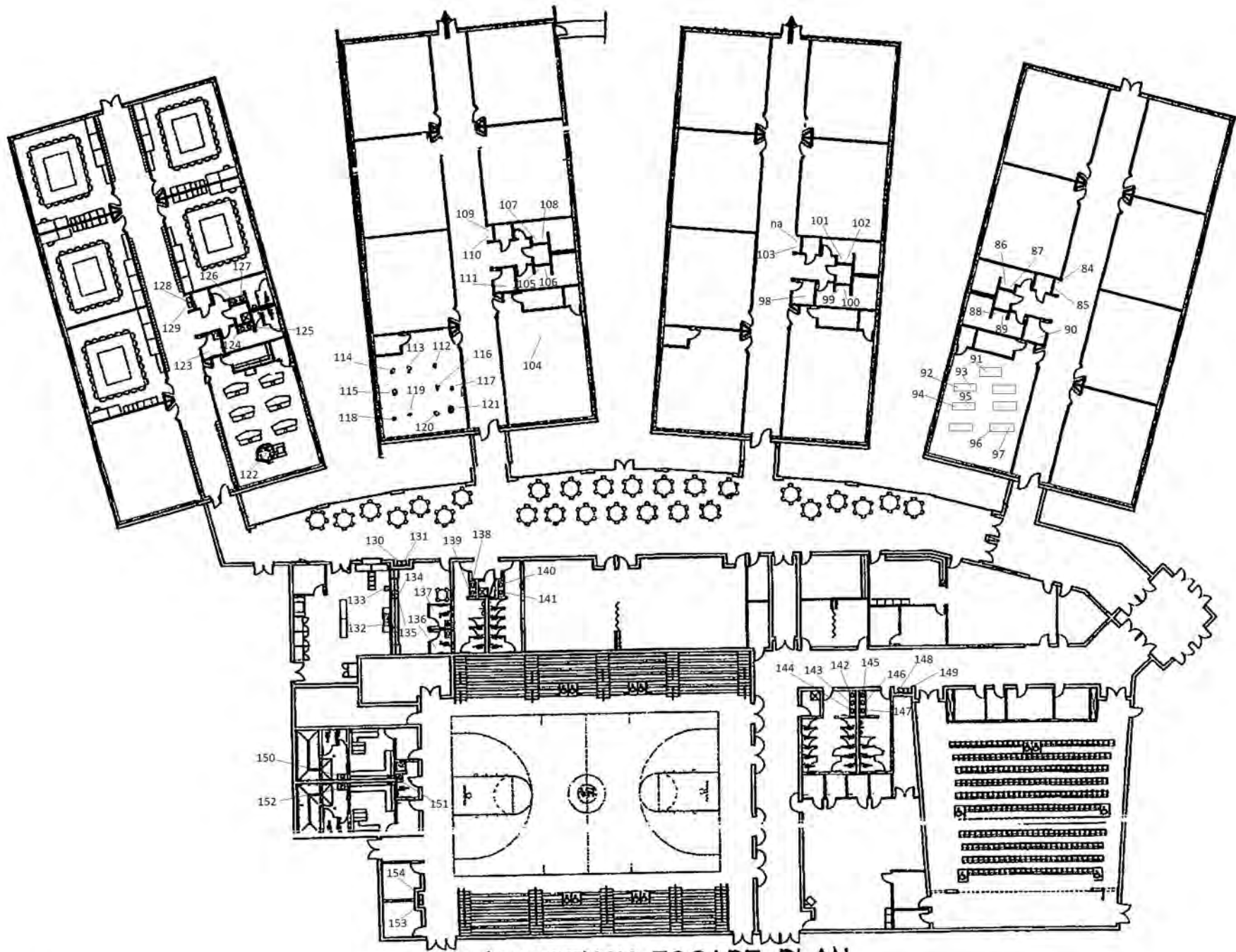


BRADFORD ACADEMY  
THE ROMINE GROUP, INC.  
SOUTHFIELD, MI  
UPPER ELEMENTARY & MIDDLE SCHOOL  
OVERALL FLOOR PLAN

ANDRUS  
ARCHITECTURE  
300 HUNTERSLEIGH DRIVE - SUITE 22  
ANN ARBOR, MI 48104  
PHONE: 734.769.1100  
FAX: 734.769.1101  
WWW.ANDRUSARCHITECTURE.COM



Date	Description
07/10/10	REVISED
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**EMERGENCY ESCAPE PLAN**