



September 18, 2024

Mark Jannone Canton Area School District 509 E. Main Street Canton, PA 17724

RE: Project: Pb/Cu

Pace Project No.: 30715200

#### Dear Mark Jannone:

Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Ormond Beach

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

Sincerely,

alama Ditel

Alaina R. Deitch alaina.deitch@pacelabs.com (724)850-5600 Project Manager

Enclosures



(570)326-4001



### **CERTIFICATIONS**

Project: Pb/Cu
Pace Project No.: 30715200

#### **Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST Alabama Certification #: 41320 California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199 Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383 Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264 Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New Jersey Certification #: FL022

New York Certification #: 11608 North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710 North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah

Utah FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity



# **SAMPLE SUMMARY**

Project: Pb/Cu
Pace Project No.: 30715200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30715200001	Elem. Primary BRR	Drinking Water	09/04/24 06:45	09/05/24 14:15
30715200002	Elem. GYM Lobby BRR	Drinking Water	09/04/24 06:45	09/05/24 14:15
30715200003	Elem. Kitchen Handwash Sink	Drinking Water	09/04/24 06:45	09/05/24 14:15
30715200004	HS 2nd floor Apt fountain	Drinking Water	09/04/24 06:41	09/05/24 14:15
30715200005	HS 1st floor science fountain	Drinking Water	09/04/24 06:41	09/05/24 14:15
30715200006	HS Cafe 3 bay sink	Drinking Water	09/04/24 06:41	09/05/24 14:15



# **SAMPLE ANALYTE COUNT**

Project: Pb/Cu
Pace Project No.: 30715200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30715200001	Elem. Primary BRR	EPA 200.8	ADS	2	PASI-O
30715200002	Elem. GYM Lobby BRR	EPA 200.8	ADS	2	PASI-O
30715200003	Elem. Kitchen Handwash Sink	EPA 200.8	ADS	2	PASI-O
30715200004	HS 2nd floor Apt fountain	EPA 200.8	ADS	2	PASI-O
30715200005	HS 1st floor science fountain	EPA 200.8	ADS	2	PASI-O
30715200006	HS Cafe 3 bay sink	EPA 200.8	ADS	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach



## **ANALYTICAL RESULTS**

Project: Pb/Cu
Pace Project No.: 30715200

Date: 09/18/2024 03:20 PM

Pace Project No.: 30715200											
Sample: Elem. Primary BRR	Lab ID: 307	15200001	Collected: 09/04/2	24 06:45	Received:	09/05/24 14:15	Matrix: Drinking	Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 20	00.8								
	Pace Analytical Services - Ormond Beach										
Copper	127	ug/L	1.0	1		09/18/24 10:5	1 7440-50-8				
Lead	6.5	ug/L	1.0	1		09/18/24 10:5	1 7439-92-1				
Sample: Elem. GYM Lobby BRR	Lab ID: 307	15200002	Collected: 09/04/2	24 06:45	Received:	09/05/24 14:15	Matrix: Drinking	y Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 20	00.8								
	Pace Analytica	I Services -	Ormond Beach								
Copper	194	ug/L	1.0	1		09/18/24 10:5	8 7440-50-8				
Lead	2.1	ug/L	1.0	1		09/18/24 10:5	8 7439-92-1				
Sample: Elem. Kitchen Handwash Sink	Lab ID: 307	15200003	Collected: 09/04/2	24 06:45	Received:	09/05/24 14:15	Matrix: Drinking	y Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS Drinking Water	Analytical Meth Pace Analytica		00.8 Ormond Beach								
Copper Lead	160 4.3	ug/L ug/L	1.0 1.0	1 1		09/18/24 10:5 09/18/24 10:5					
Sample: HS 2nd floor Apt fountain	Lab ID: 307	15200004	Collected: 09/04/2	24 06:41	Received:	09/05/24 14:15	Matrix: Drinking	y Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS Drinking Water	Analytical Meth		00.8 Ormond Beach								
Copper	39.6	ug/L	1.0	1		09/18/24 11:0	0 7440-50-8				
Lead	ND	ug/L	1.0	1		09/18/24 11:0	0 7439-92-1				
Sample: HS 1st floor science fountain	Lab ID: 307	15200005	Collected: 09/04/2	24 06:41	Received:	09/05/24 14:15	Matrix: Drinking	y Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS Drinking Water	Analytical Meth		00.8 Ormond Beach								
Copper	50.7	ug/L	1.0	1		09/18/24 11:0	2 7440-50-8				
Lead	ND	ug/L	1.0	1		09/18/24 11:0					



## **ANALYTICAL RESULTS**

Project: Pb/Cu
Pace Project No.: 30715200

Date: 09/18/2024 03:20 PM

Sample: HS Cafe 3 bay sink	Lab ID: 307	15200006	Collected: 09/04/2	4 06:41	Received: 0	9/05/24 14:15	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met							
	Pace Analytic	al Services - 0	Ormond Beach					
Copper	106	ug/L	1.0	1		09/18/24 11:43	3 7440-50-8	
		ug/L	1.0			09/18/24 11:43		



Copper

Date: 09/18/2024 03:20 PM

Lead

#### **QUALITY CONTROL DATA**

Project: Pb/Cu
Pace Project No.: 30715200

QC Batch: 1041773 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 30715200001, 30715200002, 30715200003, 30715200004, 30715200005, 30715200006

METHOD BLANK: 5725090 Matrix: Water

Associated Lab Samples: 30715200001, 30715200002, 30715200003, 30715200004, 30715200005, 30715200006

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed ND 1.0 09/18/24 12:10 ug/L ND 1.0 09/18/24 12:10 ug/L

LABORATORY CONTROL SAMPLE: 5725091

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Copper 47.1 94 85-115 ug/L 50 50 48.7 97 85-115 Lead ug/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5725086 5725087 MS MSD 30715200001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Copper ug/L 127 50 50 181 185 108 118 70-130 3 20 Lead 50 50 61.6 59.7 70-130 3 20 ug/L 6.5 110 106

5725088 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5725089 MS MSD 35904807006 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec **RPD RPD** Qual Limits 0.15 mg/L 20 Copper ug/L 50 50 200 200 100 101 70-130 0 0.0024 Lead ug/L 50 50 59.1 58.9 113 113 70-130 0 20 mg/L

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.



#### **QUALIFIERS**

Project: Pb/Cu
Pace Project No.: 30715200

#### **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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

Date: 09/18/2024 03:20 PM



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Pb/Cu
Pace Project No.: 30715200

Date: 09/18/2024 03:20 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30715200001	Elem. Primary BRR	EPA 200.8	1041773		
30715200002	Elem. GYM Lobby BRR	EPA 200.8	1041773		
30715200003	Elem. Kitchen Handwash Sink	EPA 200.8	1041773		
30715200004	HS 2nd floor Apt fountain	EPA 200.8	1041773		
30715200005	HS 1st floor science fountain	EPA 200.8	1041773		
30715200006	HS Cafe 3 bay sink	EPA 200.8	1041773		

Pace	Pace® Location Reques Pace Analytical Pittsburgh 1638 Roseytown Road, Suite Greensburg, PA 15601	es 2,3,4	te):		CHAIN-OF-		/ Analytica				:	WO#: 30715200							
Company Name: Street Address:	Canton Area School Distr 509 E. Main Street Canton, PA 17724	ict			Contact/Report Phone #:  E-Mail:  Cc E-Mail:	(570)67		.pa.us					307	15200					
Customer Project #: Project Name:	Pb/Cu				Invoice To: Mark Jannone Invoice E-Mail: mjannone@canton.k12.pa.us							Specify Contai	iner Size **		I	**Container Size: (1) 1L, (2) 500mL 125mL, (5) 100mL, (6) 40mL vial, (7 TerraCore, (9) 90mL, (10) Other			
Site Collection Info	r/Facility ID (as applicable):				Invoice E-Mail: Purchase Order # applicable):		ne@canton.k12	.pa.us					Ide	ntify Container Pre Analysis Re		ype***		*** Preservative Types: {1} None, (; H2SO4, (4) HCI, {5} NaOH, (6) Zn Ac NaHSO4, (8) Sod. Thiosulfate, (9) A MeOH, (11) Other	etate, (7)
Time Zone Collecte Data Deliverables:					Quote #: County / State or etc.) as applicable:		s): Penns ole [ ] Yes [	ylvania ] No										Proj. Mgr: Alaina Deitch AcctNum / Client ID:	identified for
[ ] EQUIS	Level III [ ] Level IV	[ ] Same Da  Date Results  Requested:			approval require Day [ ] 3 Day [		Field Filtered (if	vSID # or WW Pe applicable): [			:							Table #: Profile / Template: 11565	-conformance i
(B), Vapor (V), Surf	sert in Matrix box below): Drinki ace Water (SW),Sediment (SED) Customer Sample ID	ng Water (DW),	, Ground V oulk (CK), L Matrix *	Comp /	V), Waste Water (V LL), Biosolid (BS), C Composi	Other (OT)			#	ssue (TS), E		Pb,Cu						Prelog / Bottle Ord, ID: EZ 3150917 Sample Commen	servation non
	Firmary BRB			Grab	Date	Time	9 (4624	0645	Cont.	Results	Units	Sep.	-	+++				- 001	1 2
	M LODGY BRE	ξ		1			1	0645				2						-002	
	Tchen handwas							0/045				×						~003	
HS 20	d Floor Art rm	POUTEIN						0641				X						-004	
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HS Cate	3 Day sink			1	1		1	0641				1	_		_			1006	
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														Corrected	Temp				
Additional Instructi	one from Pace®				L	C-11								Correct P			N		
addidonal miscract	ons num Pace".					Collected By: (Printed Nam Signature:	e) <i>C</i>	lient		,		# Coole		/ Special Condition Thermometer ID:		ction Factor (*C):		fornp. (*C) Corrected Temp. (*	C) On Ice:
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	SAMI	IL CON	SAMPLE CONDITION UPON RECEIPT (SCUR)	PT (SCUR)			
CLIENT CAMPON SID			REC'D BY	M 18	PAGE	90	
REC'D 9/5/24	REC'D 14	يا	#0M	30715200	200		
RECEIVED TEMP (C') 2.			PM · DRG	Due Da	Due Date: 09/18/24	24	
RECEIVED ON ICE? (Y)	2	NA	CLIENT	CLIENT: WP-CANTON SD			
SAMPLE MATRIX?	IR GUN ID	من					
RECEIPT TEMP WITHIN  METHOD REQUIREMENT?	z	NA	WATER TEMPS S	WATER TEMPS SHOULD BEP96VE FREEZIN EFO 6.0°C (unless frazen dessert)	FF TO 6.0°C (unless fi	rozen dessert)	
CUSTODY SEALS?	3	NA	FOR PA SAMPLES: >6°C	FOR PA SAMPLES: >6°C OK WHEN COLLECTED SAME CALENDAR DAY AS RECEIPT, WHEN ON ICE, WITH EVIDENCE OF COOLING	WE CALENDAR DAY A	AS RECEIPT, WH	EN ON
SEALS INTACT? Y	z	3	Any "N" res	Any "N" response should result in Client Nottfication being completed.	t Notification being o	completed.	
		CHAI	CHAIN OF CUSTODY (COC)				
DID COC ACCOMPANY SAMPLES?	3	Z		SAMPLE LOCATION/DESCRIPTION/ID?	SCRIPTION/ID?	3	z
IF NO TO ANY QUESTION, COC IS INCOMPLETÉ AND REOUIRES ATTENTION!	OMPLETE,	QNI	SAMPLER NAME	SAMPLER NAME (OF INITIAL) AND SIGNATURE PRESENT?	TURE PRESENT?	DE	z
IF PWS, DOES COC CONTAIN:				GRAB/COM	GRAB/COMPOSITE NOTED?	25	2 2
7-DIGIT PWS ID? Y	Z			RELINQUISH	RELINQUISHED SIGNATURE?	E	z
PWS SAMPLE ID? Y	z			RELINQUISHED	RELINQUISHED DATES/TIMES?	1	z
CONTACT NAME? Y	z	ON RECORD		RECEIVE	RECEIVED SIGNATURE?	SE	z
CONTACT NUMBER? Y	z	ON RECORD		RECEIVED	RECEIVED DATES/TIMES?	10	z
IS SAMPLE REPORTABLE? Y	z		*	*NUMBER OF CONTAINERS PER SAMPLE?	S PER SAMPLE?	E	Z
LOCID AND SAMPLE TYPE? Y	z		*PRE	*PRESERVATION AND CONTAINER TYPE(S)?	AINER TYPE(S)?	2	z
7-DIGIT PWS ID & PWS SAMPLE ID MUST BE RECORDED ON COC	CORDED ON C	×	" If the COC does not list i	If the COC does not list the containers/preservative received for each sample, fill out page 2 of this dorinnent. If none 2 is not earnined it will not be inclined an earlier of the contained it will not be inclined as a second of the contained it will not be inclined as a second of the contained it will not be inclined as a second of the contained as a second o	eceived for each sample	e, fill out page 2	f this
		BOTTLE	WARE & PRESERVATI	ON			
SAMPLE BOTTLES INTACT?	<u>z</u>	IF NO, EXPLAIN:					
SAMPLE LABELS MATCH COC?	(S)	IF NO,					T
(IC, OAIE, IIME)		IF NO.	Samoles	2000	Contrainer	,	
CORRECT CONTAINERS?	<b>S</b>	EXPLAIN:	Matrix not	itted		`	
ADEQUATE VOLUME OF SAMPLE PROVIDED?	© N	IF NO, EXPLAIN:					
HEADSPACE? Y N Volatilies Odor Jenitability Stuffide	W)	FIELD FI	PIELD FILTERED? Y N	(g)	TRIP BLANKS? Y N (NA)	) N A	(N)
ALL CONTAINER PRESERVATION METS REQUIREMENTS?	<b>②</b> >	AA			TAN DO CANO	ioi ra requirer	ents
	PRESERVATION CHECKED	HECKED	DATE	TIME	INITIALS		T
VATIO		ml Added	DATE	TIME	INITIALS		
PRESERVATIVE: LIMS Reagent ID:		pH STRIPS Lot #		SAMPLES LABELED BY	Y DATE	9/17/	77
CLIENT NOTIFICATION (completed by PM)	FILL O	FILL OUT THE FOLLOWING		W 100		1020	Τ
DATE/TIME:	REASC	REASON FOR CONTACT:	VTACT:				
PAS-WILLIAMSPORT EMPLOYEE:							
PERSON CONTACTED:	5	JME OF DIX	UUTCOME UF DISCUSSION:				
CIRCLE METHOD OF CONTACT:	ADDI	ADDITIONAL NOTES:	ii ii				
THOME / EMAIL / OTHER	$\frac{1}{2}$						

DC#\_Title: ENV-FRM-WILL-0154 00 - Field Chlorine Testing Log Effective Date: 6/30/2024

# CHORNE

Calibration:	STREET ST	
Date of	on dimento.	Meter #:
		Pace Employee:
		で後年から大きで、大きなので
		570.326.4001
		2829 Reach Rd., Williamsport, PA 17701
		PAS, LLC - Williamsport, PA
Affix Work Order Lahel Here		7-1 200

	Residual Chlorine (Free)	J/gm	Ll/Bm	J/BM	700	18	7/8	1/80	mg/L	1/8	1/211
	Residual Chlorine (Total)	J/gm	ng/L	mg/L	)/au	1/88	1 10	7/9	1/8/1	7/6	7/3
	Sample Time										
FIELD DATA	Sample Date										
	Sample Identification										
	Sample	-	2	m	4	r.	9	7	60	6	10

- ALL drinking water compliance coliform samples must be field tested for residual chlorine at the time of sample collection, even if residual chlorine testing would not normally be required at that location.
  - Very high chlorine levels will overwhelm the DPD and cause a false negative result. This can sometimes be noted as an initial bright pink color which fades to no color after a few seconds. In these cases, dilution of the sample will be necessary to obtain an accurate chlorine measurement.
    - Bench-testing for residual chlorine is required if the field-testing result is > 5 mg/L.

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