

May 03, 2019

Timothy Caughey
Pinellas County Schools
11111 S. Belcher Road
Largo, FL 33773

RE: Project: Northshore Metals
Pace Project No.: 35465329

Dear Timothy Caughey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2019. 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,



Amy Weinberg
amy.weinberg@pacelabs.com
(813) 881-9401
Project Manager

Enclosures

cc: Dominic Mormando, Pinellas County Schools



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Northshore Metals

Pace Project No.: 35465329

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
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
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
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
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
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Northshore Metals

Pace Project No.: 35465329

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35465329001	Northshore-Kitchen	Drinking Water	04/30/19 06:40	05/02/19 12:35
35465329002	NorthshoreB1-Water fountain	Drinking Water	04/30/19 06:35	05/02/19 12:35

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SAMPLE ANALYTE COUNT

Project: Northshore Metals

Pace Project No.: 35465329

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35465329001	Northshore-Kitchen	EPA 200.8	KPP	2	PASI-O
35465329002	NorthshoreB1-Water fountain	EPA 200.8	KPP	2	PASI-O

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ANALYTICAL RESULTS

Project: Northshore Metals

Pace Project No.: 35465329

Sample: Northshore-Kitchen **Lab ID: 35465329001** Collected: 04/30/19 06:40 Received: 05/02/19 12:35 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
Copper	612	ug/L	1.0	0.93	1		05/03/19 13:19	7440-50-8	J(M1)
Lead	0.87 I	ug/L	1.0	0.64	1		05/03/19 13:19	7439-92-1	

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ANALYTICAL RESULTS

Project: Northshore Metals

Pace Project No.: 35465329

Sample: NorthshoreB1-Water fountain **Lab ID:** 35465329002 Collected: 04/30/19 06:35 Received: 05/02/19 12:35 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
Copper	244	ug/L	1.0	0.93	1		05/03/19 13:27	7440-50-8	
Lead	0.64 U	ug/L	1.0	0.64	1		05/03/19 13:27	7439-92-1	

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QUALITY CONTROL DATA

Project: Northshore Metals
Pace Project No.: 35465329

QC Batch: 535900 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 35465329001, 35465329002

METHOD BLANK: 2903206 Matrix: Water
Associated Lab Samples: 35465329001, 35465329002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Copper	ug/L	0.93 U	1.0	0.93	05/03/19 14:17	
Lead	ug/L	0.64 U	1.0	0.64	05/03/19 14:17	

LABORATORY CONTROL SAMPLE: 2903207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	45.4	91	85-115	
Lead	ug/L	50	48.0	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2903202 2903203

Parameter	Units	35465329001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result						
Copper	ug/L	612	50	50	652	642	79	59	70-130	2	20	J(M1)
Lead	ug/L	0.87 I	50	50	55.0	45.6	108	89	70-130	19	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2903204 2903205

Parameter	Units	35465338002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result						
Copper	ug/L	483	50	50	518	517	70	67	70-130	0	20	J(M1)
Lead	ug/L	0.64 U	50	50	47.3	49.3	94	98	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: Northshore Metals

Pace Project No.: 35465329

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

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Northshore Metals
Pace Project No.: 35465329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35465329001	Northshore-Kitchen	EPA 200.8	535900		
35465329002	NorthshoreB1-Water fountain	EPA 200.8	535900		

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CHAIN-OF-CUSTODY /
The Chain-of-Custody is a LEGAL D

NO# : 35465329



35465329

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: PINELLAS COUNTY SCHOOLS	Report To: TIMOTHY CAUGHEY	Attention:
Address: 11111 S.BELCHER RD	Copy To: mormandod@pcsb.org	Company Name:
Phone: 727-547-7199	Project Name: METALS	Address:
Requested Due Date:	Purchase Order #:	Pace Quote:
	Project Name:	Pace Project Manager:
	Project #:	Pace Profile #:
		Regulatory Agency:
		State / Location:
		FL

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS						Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)				
					START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other	Analyses Test	Y/N
1	Northshore - Kitchen			X	4-30-19	6:40													
2	Northshore B1-Water fountain hallway		X	4-30-19	6:35										X				
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Empty Containers							

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	SIGNATURE OF SAMPLER:
	Timothy F Caughey	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
74.3	N	N	Y



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35465329**
Project Manager: PM: ADA **Due Date:** 05/09/19
Client: CLIENT: 37-PINSSC

Date and Initials of person:
Examining contents: MVC
Label: 5/2/19
Deliver: _____
pH: _____

Thermometer Used: T-203 Date: 5/2/19 Time: 1240 Initials: MVC

State of Origin: FL For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp. °C 23.7 (Visual) 0.0 (Correction Factor) 23.7 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

- Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

