Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 16, 2018

Andy Nesset
Twin City Germain Immersion School
1031 Como Ave
Saint Paul, MN 55103

RE: Project: DrinkIng Waters
Pace Project No.: 10430179

Dear Andy Nesset:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2018. 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.

This report was revised on May 16, 2018 to change the reporting units.

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

Sincerely,

Sylvia Hunter

Sylvia Hunter
sylvia.hunter@pacelabs.com
1(612)607-1700
Project Manager

Enclosures

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CERTIFICATIONS

Project: DrinkIng Waters
Pace Project No.: 10430179

Minnesota Certification IDs
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: DrinkIng Waters
Pace Project No.: 10430179

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10430179001	**WF-Gym**	Water	05/05/18 06:45	05/07/18 11:58
10430179002	**WF-Cafeteria**	Water	05/05/18 06:45	05/07/18 11:58
10430179003	**WF-1**	Water	05/05/18 06:42	05/07/18 11:58
10430179004	**WF-2**	Water	05/05/18 06:42	05/07/18 11:58
10430179005	**WF-3**	Water	05/05/18 06:43	05/07/18 11:58
10430179006	**T.L. Sink**	Water	05/05/18 06:40	05/07/18 11:58
10430179007	**KS**	Water	05/05/18 07:30	05/07/18 11:58

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SAMPLE ANALYTE COUNT

Project: DrinkIng Waters
Pace Project No.: 10430179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10430179001	**WF-Gym**	EPA 200.8	WBS	1	PASI-M
10430179002	**WF-Cafeteria**	EPA 200.8	WBS	1	PASI-M
10430179003	**WF-1**	EPA 200.8	WBS	1	PASI-M
10430179004	**WF-2**	EPA 200.8	WBS	1	PASI-M
10430179005	**WF-3**	EPA 200.8	WBS	1	PASI-M
10430179006	**T.L. Sink**	EPA 200.8	WBS	1	PASI-M
10430179007	**KS**	EPA 200.8	WBS	1	PASI-M

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ANALYTICAL RESULTS

Project: DrinkIng Waters
Pace Project No.: 10430179

Sample: WF-Gym **Lab ID: 10430179001** Collected: 05/05/18 06:45 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	ND	ppb	0.10	0.010	1		05/14/18 15:50	7439-92-1	

Sample: WF-Cafeteria **Lab ID: 10430179002** Collected: 05/05/18 06:45 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	ND	ppb	0.10	0.010	1		05/14/18 15:42	7439-92-1	

Sample: WF-1 **Lab ID: 10430179003** Collected: 05/05/18 06:42 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	ND	ppb	0.10	0.010	1		05/14/18 15:43	7439-92-1	

Sample: WF-2 **Lab ID: 10430179004** Collected: 05/05/18 06:42 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	ND	ppb	0.10	0.010	1		05/14/18 15:57	7439-92-1	

Sample: WF-3 **Lab ID: 10430179005** Collected: 05/05/18 06:43 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	**0.22**	ppb	0.10	0.010	1		05/14/18 15:59	7439-92-1	

Sample: T.L. Sink **Lab ID: 10430179006** Collected: 05/05/18 06:40 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	**0.89**	ppb	0.10	0.010	1		05/14/18 16:00	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: DrinkIng Waters
Pace Project No.: 10430179

Sample: KS **Lab ID: 10430179007** Collected: 05/05/18 07:30 Received: 05/07/18 11:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8								
Lead	**1.1**	ppb	0.10	0.010	1		05/14/18 16:02	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DrinkIng Waters
Pace Project No.: 10430179

QC Batch: 536987 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
Associated Lab Samples: 10430179001, 10430179002, 10430179003, 10430179004, 10430179005, 10430179006, 10430179007

METHOD BLANK: 2919218 Matrix: Water
Associated Lab Samples: 10430179001, 10430179002, 10430179003, 10430179004, 10430179005, 10430179006, 10430179007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ppb	ND	0.10	0.010	05/14/18 15:29	

LABORATORY CONTROL SAMPLE: 2919219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ppb	100	101	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2925958 2925959

Parameter	Units	10430179001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ppb	ND	100	100	97.9	97.3	98	97	70-130	1	20	

MATRIX SPIKE SAMPLE: 2925960

Parameter	Units	10430180004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ppb	4.3 ug/L	100	101	97	70-130	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DrinkIng Waters
Pace Project No.: 10430179

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DrinkIng Waters
Pace Project No.: 10430179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10430179001	**WF-Gym**	EPA 200.8	536987		
10430179002	**WF-Cafeteria**	EPA 200.8	536987		
10430179003	**WF-1**	EPA 200.8	536987		
10430179004	**WF-2**	EPA 200.8	536987		
10430179005	**WF-3**	EPA 200.8	536987		
10430179006	**T.L. Sink**	EPA 200.8	536987		
10430179007	**KS**	EPA 200.8	536987		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed a

WO# : 10430179

10430179

Section A Required Client Information:

Company: TCGIS	
Address: 1021 Commerce St Paul MN, 55103	
Email To: anessat@TCgis.com	
Phone: 763-221-5641 Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test ↓ Lead-DW	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WF-Gym				645	5/5/18	643														001
2	WF-Cafeteria				645	"	643														002
3	WF-1				642	"	642														003
4	WF-2				642	"	642														004
5	WF-3				643	"															005
6	T.L. Shed				640	"															006
7	KS-				730	"															007
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Andy Nesset	5/7/18	11:58	Mark Pace	5/7/18	1158	21.2	N	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Nesset

SIGNATURE of SAMPLER: Andy Nesset — DATE Signed (MM/DD/YY):

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.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02May2018 Page 1 of 2
	Document No.: **F-MN-L-213-rev.23**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: TC GIS

Project #: **WO#: 10430179**

PM: SH1 **Due Date: 05/14/18**

CLIENT: TC German

Courier: ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Commercial ☐Pace ☐SpeeDee ☐Other:_____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒Bubble Wrap ☐Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☒Yes ☐No

Thermometer Used: ☐G87A9170600254 ☒G87A9155100842 **Type of Ice:** ☐Wet ☐Blue ☒None ☐Dry ☐Melted

Cooler Temp Read (°C): 21.3 **Cooler Temp Corrected (°C):** 21.2 **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** CV 5/7/18

USDA Regulated Soil (☒N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒Yes	☐No		1.
Chain of Custody Filled Out?	☒Yes	☐No		2.
Chain of Custody Relinquished?	☒Yes	☐No		3.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No		5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		6.
Rush Turn Around Time Requested?	☐Yes	☒No		7.
Sufficient Volume?	☒Yes	☐No		8.
Correct Containers Used?	☒Yes	☐No		9.
-Pace Containers Used?	☒Yes	☐No		
Containers Intact?	☒Yes	☐No		10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: WT	☒Yes	☐No		12.
All containers needing acid/base preservation have been checked?	☒Yes	☐No	☐N/A	13. ☒HNO_3 ☐H_2SO_4 ☐NaOH Positive for Res. Chlorine? Y N Sample # 1-7
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☑No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Initial when completed: CV Lot # of added preservative: HNO3 111710 H2SO4 [illegible]
Headspace in VOA Vials (>6mm)?	☐Yes	☐No	☒N/A	14.
Trip Blank Present?	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Lyndsay Hunter **Date:** 5/8/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

SCUR Exceptions: Workorder #:

Issue	Sample ID	Container Type/#

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials
WF-Gym	HNO3	>6	5/7/18	1515	1.0ml	1117116	2	bv
WF-Cafeteria	"	"	"	"	"	"	"	bv
WF-1	"	"	"	"	"	"	"	bv
WF-2	"	"	"	"	"	"	"	bv
WF 3	"	"	"	"	"	"	"	bv
T.L. Sink	"	"	"	"	"	"	"	bv
KS	"	"	"	"	"	"	"	bv