SCI ENGINEERING, INC.
EARTH • SCIENCE • SOLUTIONS
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

April 2, 2024

Michael Gegg
Mehlville School District
3120 Lemay Ferry Road
St. Louis, Missouri 63125

RE: Lead in Drinking Water Report
Witzel Learning Academy
3120 Lemay Ferry Road
St. Louis, Missouri
SCI No. 2016-0860.2T

Dear Michael Gegg:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead in drinking water sampling activities performed on December 22, 2023. The purpose of the sampling activities was to screen for elevated levels of lead in the drinking water at potable water sources throughout the above-referenced structure.

The drinking water survey is intended to satisfy the requirements for the "Get the Lead Out of School Drinking Water Act" (GTLOSDWA), Section 160.077 administered by the Missouri Department of Health and Senior Services. Potable water sources to be tested were identified by the school district prior to SCI's field activities.

LIMITATIONS

SCI's sampling activities were limited to locations identified by the school district. If any additional potable water sources need testing, please contact SCI, and we will make arrangements for sampling these fixtures. Potable water sources that were not sampled will need a sign placed near each fixture informing students and faculty it is not to be used as a drinking water source.

During the course of performing the drinking water sampling of the structure, the right water fountain in the upper floor hallway was non-operational. If this fixture is made operational, it should be sampled or labeled non-potable. SCI was able to sample all other locations identified by the school district.

DRINKING WATER SURVEY

SCI collected "first draw" samples which consisted of collecting a water sample from each fixture or sample location after it remained stagnant for at least eight hours. Prior to sampling, SCI first mobilized to the site to flush the identified potable water fixtures throughout the structure. Once each fixture was flushed, a sign was placed on the fixture indicating it should not be used. SCI then revisited the site, after a minimum of eight hours, to collect water samples from the fixtures.

SCI collected 6 drinking water samples (WS-1 through WS-6) from various water fixtures located throughout the structure and submitted them for analytical testing. The drinking water samples were analyzed for total lead by U.S. EPA Method 200.8. SCI collected a minimum of 250 milliliters of water from each location. Sampled water was containerized in laboratory-provided sample containers and shipped to the lab using standard chain-of-custody procedures. Figures depicting the locations of the sampled water fixtures are enclosed.

The drinking water samples were analyzed for lead in accordance with the GTLOSDWA, Section 160.077, which establishes an action level (AL) of 5 parts per billion (ppb). During the course of SCI's sampling, no drinking water samples exceeded the AL. A copy of the analytical test results and chain-of-custody for all samples is enclosed.

CONCLUSION AND REPORTING

As previously mentioned, no drinking water samples exceeded the AL of 5 ppb. Therefore, all tested fixtures are compliant per GTLOSDWA and should be tested every five years.

Within seven business days after receiving this report, the school district shall contact parents and staff via written notification which shall include the following:

- The test results and a summary that explains such results;
- A description of any remedial steps taken;
- A description of general health effects of lead contamination and community specific resources; and
- If there is not enough water to meet the drinking water needs of the students, teachers, and staff, bottled water shall be provided.

Additionally, within two weeks of receiving this report, the results and any lead remediation plans must be made available on the school's website.

This report, and subsequent annual testing reports, must be submitted to the Missouri Department of Health and Senior Services, Healthy Drinking Water Unit, PO Box 570, Jefferson City, MO 65102-0570.

Respectfully,

SCI ENGINEERING, INC.

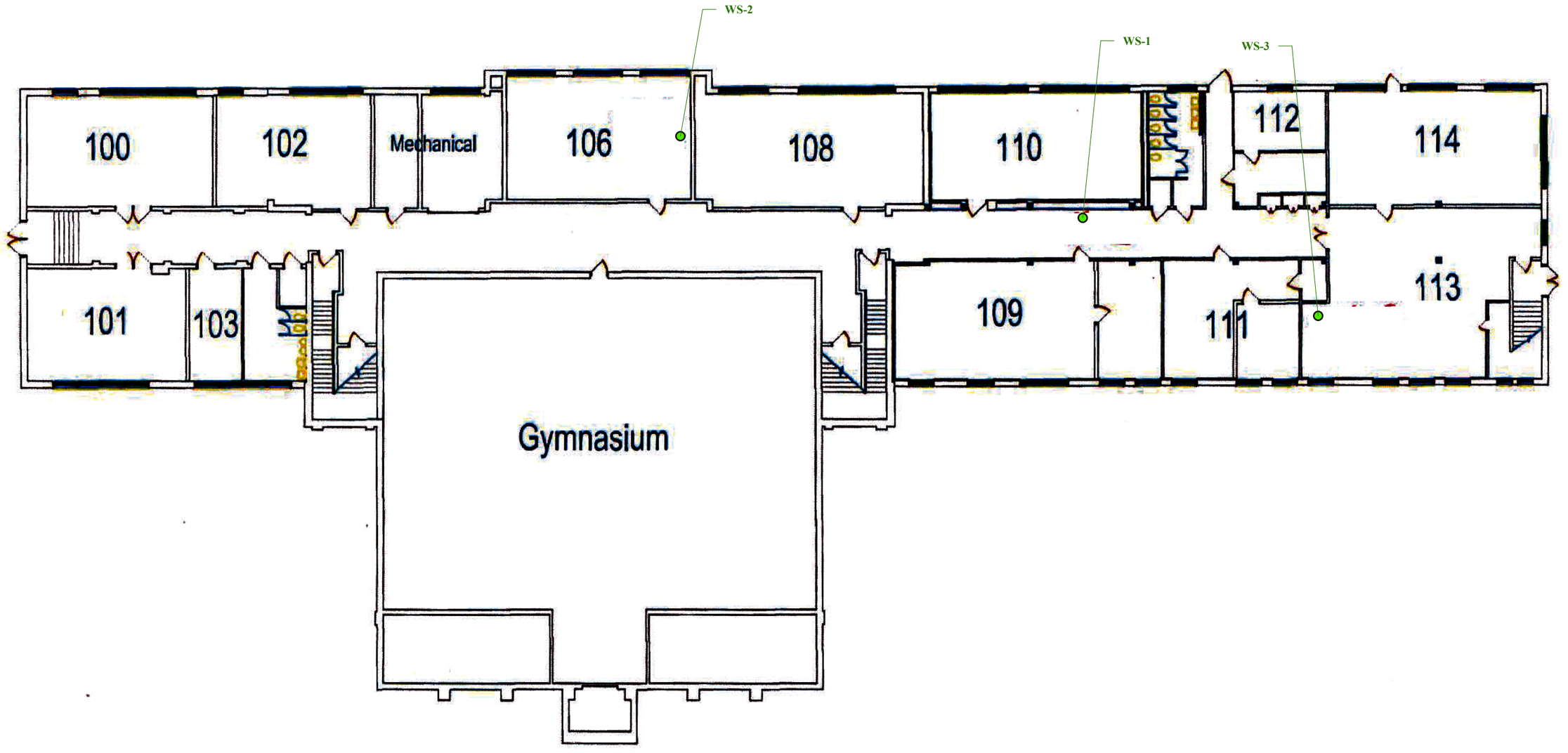
Brian L. Lieb
Project Scientist

Jessica B. Keeven, CHMM
Senior Scientist

BLL/JBK/bms

Enclosure
Lead Drinking Water Sampling Plan
Lead Testing Results

\\scieng\shared\StCharles\shared\1soils\1NEW\PROJECT FILES\2016 PROJECTS\2016-0860 Mehlville School District\2T\Witzel (WS)\Witzel Drinking Water Testing.doc



GENERAL NOTES/LEGEND

- RESULTS LESS THAN THE ACTION LEVEL OF 5 PARTS PER BILLION

FLOOR PLANS PROVIDED BY MEHLVILLE SCHOOL DISTRICT.
DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

PROJECT NAME
MEHLVILLE SCHOOL DISTRICT
WITZEL LEARNING CENTER - 1ST FLOOR
ST. LOUIS, MISSOURI

LEAD DRINKING WATER SAMPLING PLAN

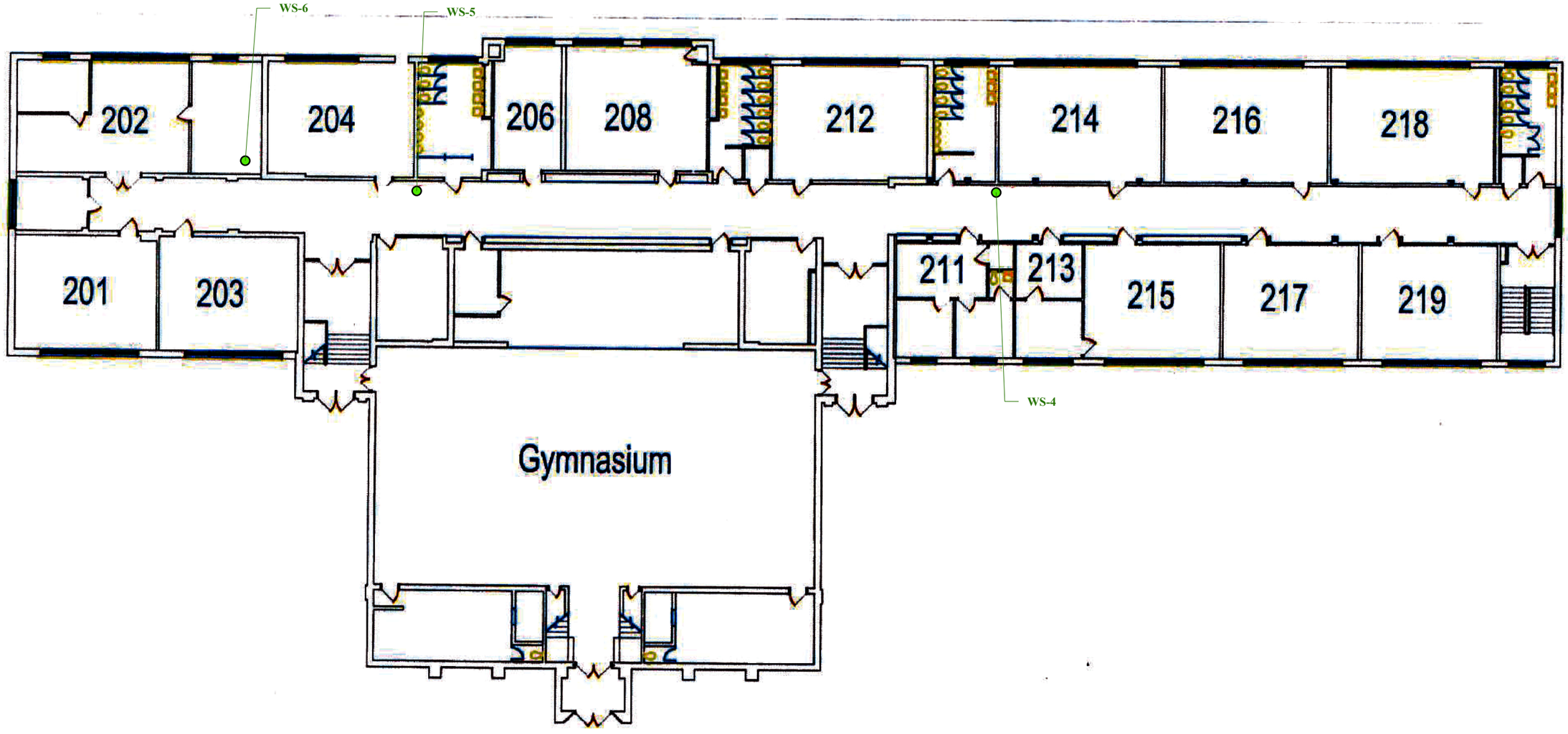
JOB NUMBER
2016-0860.2T

FIGURE DATE
03/06/2024

DRAWN BY
JTM

CHECKED BY
BLL

FIGURE
1



GENERAL NOTES/LEGEND

● RESULTS LESS THAN THE ACTION LEVEL OF 5 PARTS PER BILLION

FLOOR PLANS PROVIDED BY MEHLVILLE SCHOOL DISTRICT.
DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

PROJECT NAME
MEHLVILLE SCHOOL DISTRICT
WITZEL LEARNING CENTER - 2ND FLOOR
ST. LOUIS, MISSOURI

LEAD DRINKING WATER SAMPLING PLAN

0 10 20 ft
SCALE 1"=20'

JOB NUMBER 2016-0860.2T
FIGURE DATE 03/06/2024
DRAWN BY JTM
CHECKED BY BLL
FIGURE 2

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

January 29, 2024

Glenn Grissom
SCI Engineering
130 Point W. Blvd.
St. Chariles, MO 63301

RE: 2016-0860.2T - WITZEL

Dear Glenn Grissom:

Please find enclosed the analytical results for the **6** sample(s) the laboratory received on **1/2/24 3:35 pm** and logged in under work order **HA00090**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Chenise Lambert-Sykes
Project Manager
(314)432-0550
Chenise.Lambert-Sykes@pacelabs.com

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order HA00090

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

Case Narrative

The drinking water lead analysis was performed at Pace-Ormond Beach, FL. Please refer to the subcontract section of the report for details.

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample:
Name:

Sampled:
Received:

Reg ID:

PO #:

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Certified by: Chenise Lambert-Sykes, Project Manager

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

January 10, 2024

Chenise Lambert-Sykes
Pace Analytical Services, Inc - IL/MO
944 Anglum Road
Hazelwood, MO 63042

RE: Project: HA00090
Pace Project No.: 35851633

Dear Chenise Lambert-Sykes:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 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,

Bradley Smith

Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: HA00090
Pace Project No.: 35851633

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
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
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: HA00090
Pace Project No.: 35851633

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35851633001	**HA00090-01**	EPA 200.8	EAP	1	PASI-O
35851633002	**HA00090-02**	EPA 200.8	EAP	1	PASI-O
35851633003	**HA00090-03**	EPA 200.8	EAP	1	PASI-O
35851633004	**HA00090-04**	EPA 200.8	EAP	1	PASI-O
35851633005	**HA00090-05**	EPA 200.8	EAP	1	PASI-O
35851633006	**HA00090-06**	EPA 200.8	EAP	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-01 **Lab ID: 35851633001** Collected: 12/22/23 21:42 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		01/09/24 21:18	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-02 **Lab ID: 35851633002** Collected: 12/22/23 21:46 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	**1.5**	ug/L	1.0	1		01/09/24 21:22	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-03 **Lab ID: 35851633003** Collected: 12/22/23 21:48 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	**4.0**	ug/L	1.0	1		01/09/24 21:24	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-04 **Lab ID: 35851633004** Collected: 12/22/23 21:50 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		01/09/24 21:25	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-05 **Lab ID: 35851633005** Collected: 12/22/23 21:52 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		01/09/24 21:26	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: HA00090
Pace Project No.: 35851633

Sample: HA00090-06 **Lab ID: 35851633006** Collected: 12/22/23 21:53 Received: 01/04/24 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		01/09/24 21:28	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: HA00090
Pace Project No.: 35851633

QC Batch: 979407
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35851633001, 35851633002, 35851633003, 35851633004, 35851633005, 35851633006

METHOD BLANK: 5387920 Matrix: Water
Associated Lab Samples: 35851633001, 35851633002, 35851633003, 35851633004, 35851633005, 35851633006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	01/09/24 21:58	

LABORATORY CONTROL SAMPLE: 5387921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	52.4	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5387916 5387917

Parameter	Units	35851633001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	50	50	53.6	52.8	107	105	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5387918 5387919

Parameter	Units	35851683055 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	3.6	50	50	56.6	56.8	106	106	70-130	0	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: HA00090
Pace Project No.: 35851633

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.

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HA00090
Pace Project No.: 35851633

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35851633001	**HA00090-01**	EPA 200.8	979407		
35851633002	**HA00090-02**	EPA 200.8	979407		
35851633003	**HA00090-03**	EPA 200.8	979407		
35851633004	**HA00090-04**	EPA 200.8	979407		
35851633005	**HA00090-05**	EPA 200.8	979407		
35851633006	**HA00090-06**	EPA 200.8	979407		

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HA00090

WO# : 35851633

35851633

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Ormond Beach
8 East Tower Circle
Ormond Beach, FL 32174
(386) 676-4842

Sample: HA00090-01
Name: WS - 1

Sampled: 12/22/23 20:42
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:42	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:42	

Sample: HA00090-02
Name: WS - 2

Sampled: 12/22/23 20:46
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:46	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:46	

Sample: HA00090-03
Name: WS - 3

Sampled: 12/22/23 20:48
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:48	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:48	

Sample: HA00090-04
Name: WS - 4

Sampled: 12/22/23 20:50
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:50	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:50	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HA00090

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Ormond Beach
8 East Tower Circle
Ormond Beach, FL 32174
(386) 676-4842

Sample: HA00090-05
Name: WS - 5

Sampled: 12/22/23 20:52
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:52	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:52	

Sample: HA00090-06
Name: WS - 6

Sampled: 12/22/23 20:53
Matrix: Drinking Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:53	
01-Pb 200.8 DW Schools	01/15/24 16:00	06/19/24 20:53	

Please email results to Chenise Lambert-Sykes at Chenise.Lambert-Sykes@pacelabs.com

Date Shipped: 1/3/24 Total # of Containers: 6 Sample Origin (State): _____ PO #: _____

Turn-Around Time Requested ☒ NORMAL ☐ RUSH Date Results Needed: _____

Relinquished By	Date/Time	Received By	Date/Time
[signature]	1/3/24 1407	TSI/pace	1/4/24 1025

Sample Temperature Upon Receipt _____ °C
Sample(s) Received on Ice Y or N
Proper Bottles Received in Good Condition Y or N
Bottles Filled with Adequate Volume Y or N
Samples Received Within Hold Time Y or N
Date/Time Taken From Sample Bottle Y or N

Pace

Sample Condition Upon Receipt Form (SCUR)

WO# : 35851633
PM: BTS Due Date: 01/11/24
CLIENT: PACHAZ

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents:
Label:
Deliver: NA
pH:

Thermometer Used: T-409 Date: 1/4/24 Time: 1027 Initials: ZAB

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

Cooler #1 Temp.°C	6.4 (Visual)	-0.1 (Correction Factor)	6.3 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #2 Temp.°C	7.2 (Visual)	(Correction Factor)	7.1 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #3 Temp.°C	5.6 (Visual)	(Correction Factor)	5.5 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #4 Temp.°C	4.5 (Visual)	(Correction Factor)	4.4 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #5 Temp.°C	5.8 (Visual)	(Correction Factor)	5.7 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #6 Temp.°C	6.3 (Visual)	(Correction Factor)	6.2 (Actual)	☐Samples on ice, cooling process has begun.
Recheck for OOT °C	(Visual)	(Correction Factor)	(Actual)	**Time:** **Initials:**

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☐Pace ☐Other:

Shipping Method: ☐Standard Overnight ☐First Overnight ☐Priority Overnight ☐Ground ☐International Priority ☐Other:

Billing: ☐Recipient ☐Sender ☐Third Party ☐Credit Card ☐Unknown

Tracking #

Custody Seal Present: ☐Yes ☐No **Seal properly placed and intact:** ☐Yes ☐No **Ice:** ☐Wet ☐Blue ☐Dry ☐None ☐Melted

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐None ☐Other:

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)
Shorted Date: **Shorted Time:**
Bottle Quantity / Type:

Chain of Custody:	**Present:** ☐Yes ☐No | **Filled Out:** ☐Yes ☐No ☐N/A | **Sampler Name:** ☐Yes ☐No ☐N/A			
	Relinquished To Pace: ☐Yes ☐No ☐N/A | **Sampling Date(s):** ☐Yes ☐No ☐N/A | **Sampling Time(s):** ☐Yes ☐No ☐N/A			
Samples Arrived within Hold Time.	☐Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC.	☐Yes	☐No	☐N/A	Comments:
Sufficient Volume.	☐Yes	☐No	☐N/A	Comments:
Correct Containers Used.	☐Yes	☐No	☐N/A	Comments:
Containers Intact.	☐Yes	☐No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	☐Yes	☐No	☐N/A	Comments:
All containers needing acid / base preservation have been checked.	☐Yes	☐No	☐N/A	**Preservation Information**
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☐Yes	☐No	☐N/A	**Preservative:** **Date:** **Lot / Trace:** **Time:** **Amount added (mL):** **Initials:**
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☐N/A	
Trip Blank Present:	☐Yes	☐No	☐N/A	

Comments / Resolutions (use back for additional comments):

Qualtrax Document ID: 33786

Sample Condition Upon Receipt Form (SCUR)

WO#: 35851633
PM: BTS Due Date: 01/11/24
CLIENT: PACHAZ

Project #
Project Manager:
Client:

Thermometer Used: T-409 Date: 1/4/24 Time: 1027 Initials: ZAB

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: Nel
pH: _____

State of Origin: _____

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	4.4 (Visual)	-0.1 (Correction Factor)	4.3 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #2 Temp.°C	5.9 (Visual)		5.8 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #3 Temp.°C	3.7 (Visual)		3.6 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #4 Temp.°C	4.2 (Visual)		4.1 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #5 Temp.°C	4.8 (Visual)		4.7 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #6 Temp.°C	5.1 (Visual)		5.0 (Actual)	☐Samples on ice, cooling process has begun.
Recheck for OOT °C	16.2 (Visual)		16.1 (Actual)	Time: _____ Initials: _____

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

Shipping Method: ☐Standard Overnight ☐First Overnight ☐Priority Overnight ☐Ground ☐International Priority ☐Other: _____

Billing: ☐Recipient ☐Sender ☐Third Party ☐Credit Card ☐Unknown

Tracking # _____

Custody Seal Present: ☐Yes ☐No **Seal properly placed and intact:** ☐Yes ☐No **Ice:** ☐Wet ☐Blue ☐Dry ☐None ☐Melted

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐None ☐Other:

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)
Shorted Date: _____ **Shorted Time:** _____
Bottle Quantity / Type:

Chain of Custody:	**Present:** ☐Yes ☐No | **Filled Out:** ☐Yes ☐No ☐N/A | **Sampler Name:** ☐Yes ☐No ☐N/A			
	Relinquished To Pace: ☐Yes ☐No ☐N/A | **Sampling Date(s):** ☐Yes ☐No ☐N/A | **Sampling Time(s):** ☐Yes ☐No ☐N/A			
Samples Arrived within Hold Time.	☐Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC.	☐Yes	☐No	☐N/A	Comments:
Sufficient Volume	☐Yes	☐No	☐N/A	Comments:
Correct Containers Used	☐Yes	☐No	☐N/A	Comments:
Containers Intact	☐Yes	☐No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	☐Yes	☐No	☐N/A	Comments:
All containers needing acid / base preservation have been checked.	☐Yes	☐No	☐N/A	**Preservation Information**
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☐Yes	☐No	☐N/A	**Preservative:** _____ **Date:** _____ **Lot / Trace:** _____ **Time:** _____ **Amount added (mL):** _____ **Initials:** _____
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☐N/A	
Trip Blank Present:	☐Yes	☐No	☐N/A	

Comments / Resolutions (use back for additional comments):

Qualtrax Document ID: 33786

Pace

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO#: 35851633
PM: BTS Due Date: 01/11/24
CLIENT: PACHAZ

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: NP
pH: _____

Thermometer Used: T-409 Date: 1/4/24 Time: 1027 Initials: ZRB

State of Origin: _____

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	13.7 (Visual)	-0.1 (Correction Factor)	13.6 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #2 Temp.°C	13.5 (Visual)	(Correction Factor)	13.4 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #3 Temp.°C	14.8 (Visual)	(Correction Factor)	14.7 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #4 Temp.°C	15.3 (Visual)	(Correction Factor)	15.2 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #5 Temp.°C	16.0 (Visual)	(Correction Factor)	15.9 (Actual)	☐Samples on ice, cooling process has begun.
Cooler #6 Temp.°C	15.7 (Visual)	(Correction Factor)	15.6 (Actual)	☐Samples on ice, cooling process has begun.
Recheck for OOT °C	14.4 (Visual)	(Correction Factor)	14.3 (Actual)	☐Samples on ice, cooling process has begun.

Time: _____ Initials: _____

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

Shipping Method: ☐Standard Overnight ☐First Overnight ☑Priority Overnight ☐Ground ☐International Priority ☐Other: _____

Billing: ☐Recipient ☑Sender ☐Third Party ☐Credit Card ☐Unknown

Tracking # 7003 7810 9781

Custody Seal Present: ☐Yes ☐No **Seal properly placed and intact:** ☐Yes ☐No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐None ☐Other: **Ice:** ☐Wet ☐Blue ☐Dry ☐None ☐Melted

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)
Shorted Date: _____ **Shorted Time:** _____
Bottle Quantity / Type: _____

Chain of Custody:	**Present:** ☑Yes ☐No | **Filled Out:** ☑Yes ☐No ☐N/A | **Sampler Name:** ☐Yes ☐No ☑N/A			
	Relinquished To Pace: ☑Yes ☐No ☐N/A | **Sampling Date(s):** ☑Yes ☐No ☐N/A | **Sampling Time(s):** ☑Yes ☐No ☐N/A			
Samples Arrived within Hold Time.	☑Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC.	☐Yes	☐No	☑N/A	Comments:
Sufficient Volume.	☑Yes	☐No	☐N/A	Comments:
Correct Containers Used.	☑Yes	☐No	☐N/A	Comments:
Containers Intact.	☑Yes	☐No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	☑Yes	☐No	☐N/A	Comments:
All containers needing acid / base preservation have been checked.	☑Yes	☐No	☐N/A	**Preservation Information**
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑Yes	☐No	☐N/A	**Preservative:** _____ **Lot / Trace:** _____ **Amount added (mL):** _____ **Date:** _____ **Time:** _____ **Initials:** _____
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☑N/A	
Trip Blank Present:	☐Yes	☐No	☑N/A	

Comments / Resolutions (use back for additional comments):

Qualtrax Document ID: 33786

Pace Analytical Services
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED_____

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT	PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #
SCI Engineering	2016-0860.2T	Wittzel	
ADDRESS	**PHONE NUMBER**	**E-MAIL**	**DATE SHIPPED**
130 Point West Blvd	(314) 581-7570	ggrissom@sciengineering.com	
CITY STATE ZIP St. Charles, MO 63301	**SAMPLER (PLEASE PRINT)** Dan Vielweber	**MATRIX TYPES:** WW- WASTEWATER; DW- DRINKING WATER; GW- GROUND WATER; WWSL- SLUDGE; NAS- NON AQUEOUS SOLID; LCHT-LEACHATE; OIL-OIL; SO-SOIL; SOL-SOLID	
CONTACT PERSON Glen Grissom	**SAMPLER'S SIGNATURE**		

4 (FOR LAB USE ONLY)	
LOGIN #	HH00090
LOGGED BY:	SAB
CLIENT:	SCI Engineering
PROJECT:	Drinking Water Lead
PROJ. MGR.:	Chenise Lambert-Sykes
CUSTODY SEAL #:	

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	3 ANALYSIS REQUESTED: DW Pb	Turb Check	REMARKS
WS-1	12-22-23	2042	X		DW	1	6	X	X	
WS-2		2046	X					X	X	
WS-3		2048	X					X	X	
WS-4		2050	X					X	X	
WS-5		2052	X					X	X	
WS-6		2053	X					X	X	

CHEMICAL PRESERVATION CODES:	1 – HCL	2 – H2SO4	3 – HNO3	4 – NAOH	5 – NA2S2O3	6 – UNPRESERVED	7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE): NORMAL RUSH

DATE RESULTS NEEDED:

RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE

EMAIL IF DIFFERENT FROM ABOVE:

PHONE # IF DIFFERENT FROM ABOVE:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*

PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

7 RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	12-29-23	1530		12/29/23	1640
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	1/2/24	8:05		1-2-24	1020
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	1-2-24	1535		1/2/24	1535

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT IR 5 22.4 °C

CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N

SAMPLE(S) RECEIVED ON ICE Y OR N

SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N

DATE AND TIME TAKEN FROM SAMPLE B[illegible]

1 **CLIENT**: Client's company name
ADDRESS: Client's mailing address
CITY, STATE, ZIP: Client's city, state and zip code for mailing
CONTACT PERSON: Person to receive results
PROJECT NUMBER: Client's reference to the project or work involved with thesesamples.
PROJECT LOCATION: Client's location of project
PURCHASE ORDER NUMBER: Client's invoicing information
PHONE NUMBER: Client's contact phone number
E-MAIL: Client's e-mail for correspondence and final report
DATE SHIPPED: Month, date and year samples were shipped or delivered to the lab
SAMPLER: Printed name of sample collector
SAMPLER'S SIGNATURE: Signature of sample collector
REGULATORY PROGRAM: Circle regulatory program if applicable.
STATE WHERE SAMPLES COLLECTED: Enter the state if different from client address

2 **SAMPLE DESCRIPTION**: The unique sample description you want to appear on the analytical report
DATE COLLECTED: Date sample was collected. For composite samples, this is typically the date when the last aliquot was added.
TIME COLLECTED: Time sample was collected. For composite samples, this is typically the time when the last aliquot was added.
SAMPLE TYPE: Place a check mark in the box marked "GRAB" if the sample was collected at one time from one specific location. Place a check mark in the box marked "COMP" if the sample is a composite of samples collected at one or more times or locations and combined to make one sample.
MATRIX TYPE: From field above. If "OTHER" please identify
BOTLE COUNT: Total number of containers submitted for the samples
PRESERVATION CODE: Indicate bottle preservative using the codes on the front of the COC for non-PACE bottles, provided by the client.

3 **ANALYSIS REQUESTED**: Write the analysis name (or an abbreviation), the name of a group of tests, or the method number you would like us to perform. Examples are BOD, TCLP Metals, PCBs, Method 624, etc. Place a check mark in the small boxes that correspond to the sample(s) on which you want these tests performed.

REMARKS: List special instructions about the sample here. This space can also be used for listing additional analyses, or to request an extra copy of the report to be sent to an alternate person/address.

4 To be completed by laboratory personnel.

5 **TURNAROUND TIME REQUESTED**: Circle "NORMAL" if you want routine 10 working day TAT. If faster results are needed circle "RUSH", indicated the due date requested, and, if possible, call the lab in advance to schedule this work. Surcharges may apply for non-routine turnaround times.
RUSH RESULTS VIA: Choose method by which you would like to receive the RUSH results by circling either "PHONE" or E-MAIL". List the appropriate number/e-mail if different from that listed in section 1.

6 Place your initials on the line to give the lab permission to proceed with analysis without calling you regarding a sample nonconformance. If the sample does not meet the Sample Acceptance Policy requirements then the appropriate case narrative and/or data qualifiers will be added to the corresponding analysis and may not be acceptable to use for regulatory purposes. Contact your project manager for further information or to obtain a copy of the Sample Acceptance Policy.

Summarized Sample Acceptance Policy Requirements:

- Proper, full and completed chain-of-custody documentation
- Readable unique sample container identification written in indelible ink
- Appropriate sample container
- Sufficient sample volume to perform requested tests
- Received within required holding time
- Received within temperature preservation requirements
- Sample containers received in good condition (not leaking or broken)
- Any custody seal intact
- Properly preserved, and
- No headspace in volatile water samples

A data qualifier and/or case narrative will be added to the final test report when the above sample acceptance requirements are not met.
BOX 6 CANNOT BE USED FOR DRINKING WATER COMPLIANCE SAMPLES.

7 **RELINQUISHED BY/RECEIVED BY:** This form **must be signed** each time the sample(s) changes hands. Chain-of-Custody seals are available upon request if needed.

8 To be completed by laboratory personnel.

Sample Acceptance Policy – Receiving facility's specific policy available from your project manager.

SERVING YOU IN THE FOLLOWING LOCATIONS

2231 W Altorfer Dr
Peoria, IL 61615
309-692-9688

944 Anglum Road
Hazelwood, MO 63042
314-432-0550

1805 W Sunset St.
Springfield, MO 65807
417-964-8924

4314-A Crystal Lake Rd
McHenry, IL 60050
815-344-4044

Thank you for using Pace Analytical Services, LLC
Please call 800-752-6651 if you have any questions about completing this form.