



# Environmental Works, Inc.

November 17, 2023

Healthy Drinking Water Unit  
Missouri Department of Health and Senior Services  
P.O. Box 570  
Jefferson City, MO 65102

**RE: Lead in Drinking Water Report  
Frontier Schools – FSI School of Excellence  
6455 E Commerce Avenue, Kansas City, Missouri 64120**

Dear Healthy Drinking Water Unit, Parents and Teachers:

Environmental Works, Inc. (EWI), on behalf of Frontier Schools (Frontier), has prepared this Lead in Drinking Water Report for Frontier School of Innovation (FSI) – School of Excellence located at 5605 Troost Avenue in Kansas City, Missouri. This report summarizes the lead in drinking water sampling and testing performed during the August 2023 – July 2024 reporting year. Sampling and testing was performed to satisfy the requirement of “Get the Lead Out of School Drinking Water Act”, Revised Statutes of Missouri (RSMo) Chapter 160 Section 077 (160.077).

## **Background**

RSMo 160.077 requires schools to conduct an inventory, prepare a sampling and testing plan, perform sampling, and complete a remediation plan (final report) of all water outlets used for drinking water and water dispensed for cooking and cleaning of eating and cooking utensils.

The Environmental Protection Agencies (EPA) lead drinking water standard limit is fifteen (15) micrograms per liter (ug/L) or parts per billion (ppb); however, RSMo 160.077 requires that all Missouri schools achieve a five (5) ug/L limit of lead in water. General information on the health effects of lead contamination and additional informational resources for employees and parents of children at each school will be provided upon request using the contact information in **Attachment A**.

Procedures for inventorying and sampling drinking water outlets (DWOs) were conducted under guidance from the Missouri Department of Health and Senior Services (MDHSS) in accordance with the RSMo 160.077 and the EPA 3T’s guidance for Reducing Lead in Drinking Water. Potential DWOs were identified by Frontier Schools based on the age and instructional capabilities of students, date of building construction, outlet condition, and utilization of building facilities. The building diagram is attached as **Figure 1** and the outlets identified in the inventory are listed in **Table 1**.

## **Initial Sampling and Testing**

On September 21, 2023, EWI collected a total of 28 “first draw” samples from DWOs identified in the inventory. Samples were taken after a stagnation period of 8 to 18 hours from the first water received when outlets were turned on. First draw samples were labeled, managed under a chain of custody (COC), and sent to Pace Analytical Services (Pace), a certified Missouri Drinking Water laboratory, for analysis of lead by Method 200.8. Frontier School of Excellence was occupied by students and staff prior to the initial sampling and areas of limited use were flushed for at least 10 minutes by Frontier

personnel. Results of the initial sampling are summarized in **Table 1**, with the laboratory analytical report provided as **Attachment B** and photo documentation as **Attachment C**.

The initial sampling results indicated concentrations of lead above the Missouri Lead in Drinking Water limit of 5 ug/L in eight (8) outlets located in science classrooms (Rm. 123 and Rm. 139). Of these eight (8) samples, five (5) were above the 15 ug/L EPA lead drinking water standard. The remaining 20 lead results were below the Missouri Lead in Drinking Water limit and/or the laboratory detection limit (<1.0 ug/L).

### **Remedial Action Plan and Implementation**

The Frontier School District noted science classroom sinks at laboratory desks along the walls are rarely utilized and limited to handwashing and curriculum use only. To educate and prevent misuse of water from faucets with lead concentrations over 5 ug/L, Frontier Schools applied signage to all applicable faucets restricting water usage to handwashing and curriculum purposes only.

### **Limitations**

This report was prepared based on information obtained during site visits and provided by Frontier Schools. The conclusions and recommendations of this report are professional opinions based solely upon those observations and interpretations of sampling techniques and sample analysis as described in our report. The data collected during the limited visual inspection, interview period, and short-term water collection event only allows us to determine if the results correspond to the characteristics of a building or facility at the time of the survey. A list of outlets that were non-operational and/or not included in the sampling plan established by Frontier Schools are listed at the bottom of **Table 1**.

### **Summary & Recommendations**

The September 2023 sampling results indicate all outlets utilized within the Frontier STEM High School building, excluding laboratory sinks which are under restricted use, are non-detectable or below the 5 ug/L (ppb) limit for Missouri Lead in Drinking Water. Routine testing may be required on a 5-year basis consistent with the Get the Lead Out of School Drinking Water Act. However, routine cleaning with follow-up flushing or replacement of aerators is recommended. Laboratory faucets with lead concentrations above the EPA lead drinking water standard could be good candidates for removal.

Frontier Schools have satisfied the RSMo 160.077 requirements to complete an outlet inventory, sampling and testing, and remediation of drinking water outlets in their school building. If you have any questions or need any additional information regarding this project, please contact EWI at 816-285-8410.

Sincerely,  
**ENVIRONMENTAL WORKS, INC.**



Rachel Dercher  
Senior Project Manager

cc: Matthew Mercer, Frontier Schools (electronic)

Attachments (included on the following page):

Figure 1 – Building Diagram

Table 1 – Summary of Outlet Water Analytical Results

Attachment A – School Contact Information

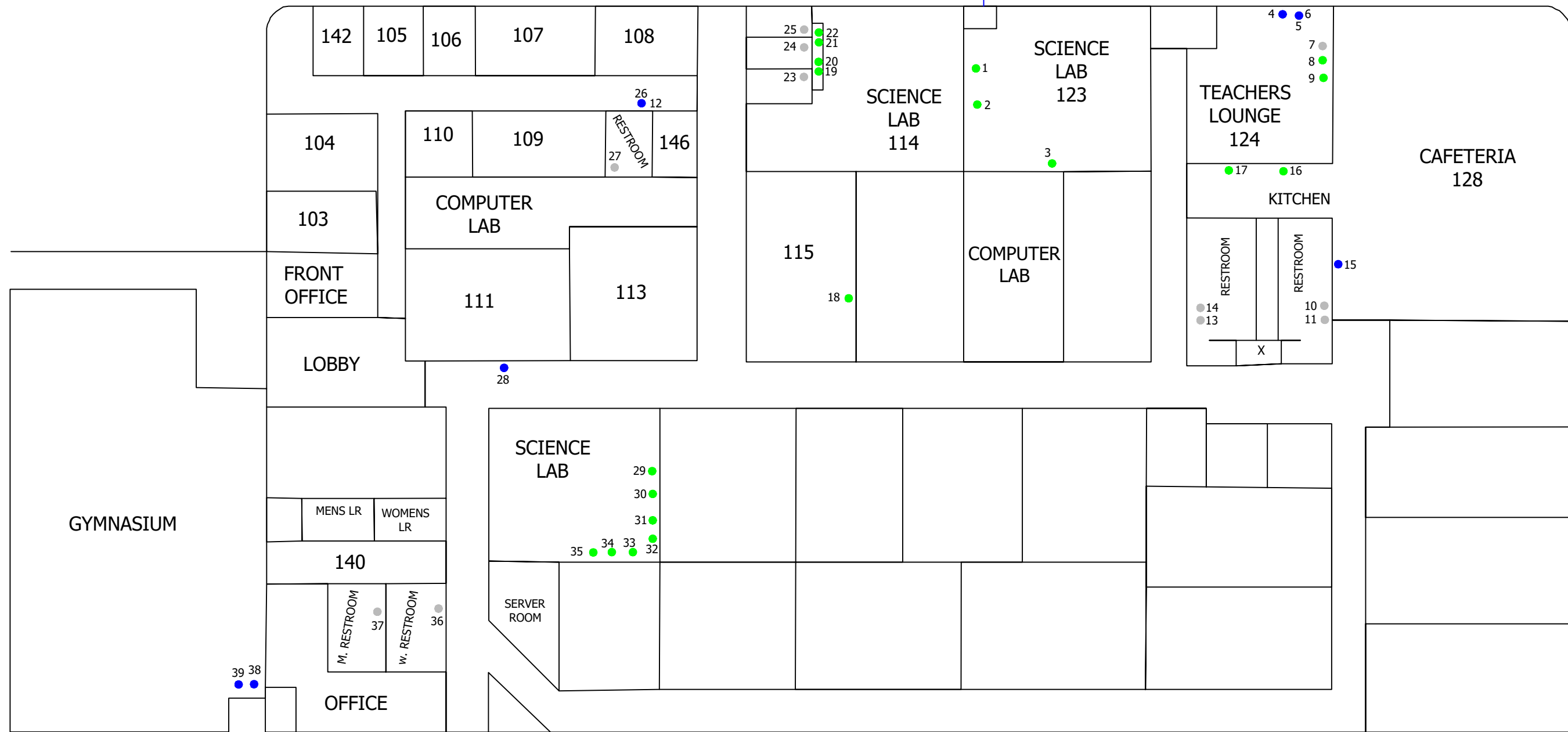
Attachment B – Laboratory Analytical Report

Attachment C – Photo Documentation



# FRONTIER SCHOOL OF EXCELLENCE

WATER ENTERS BUILDING



### LEGEND

APPROXIMATE OUTLET LOCATIONS:		BF	BATHROOM FAUCET
●	SAMPLED OUTLET (FAUCET)	CF	CLASSROOM FAUCET
●	SAMPLED OUTLET (DRINKING WATER)	SF	SHOWER FAUCET
●	NON-OPERATIONAL/NOT SAMPLED OUTLET	DW	DRINKING WATER
X	JANITORS FAUCET	#	SAMPLE LOCATION



CHECKED BY:  
R. DERCHER  
E.W.I. # 233451.05  
DRAWN BY: TW  
Nov. 16, 2023

NOT TO SCALE



Kansas City Office Location:  
1731 Locust Street  
Kansas City, MO 64108  
Phone: (417) 890-9500

**BUILDING DIAGRAM**  
FRONTIER SCHOOL OF EXCELLENCE  
5605 TROOST AVENUE  
KANSAS CITY, JACKSON COUNTY, MISSOURI

FIGURE  
**1**



**TABLE 1**  
**Summary of Outlet Water Analytical Results**  
**Frontier School District: School of Excellence**

Map ID	Program Sample ID	Outlet Type	Location (hall, room #, etc.)	Sample Type	Initial Sample Date	Lead Results	Notes
	Format (Bldg-floor-Rm-Outlet-Type-Sample Number)					200.8 Method ug/L (ppb)	
1	05-01-123-CF-P-1	Faucet 1, Classroom	Rm. 123, Science classroom, W	First Draw	9/21/2023	3.9	Handwashing, curriculum use only; Signage and engineering control to limit use.
2	05-01-123-CF-P-2	Faucet 2, Classroom	Rm. 123, Science classroom, E	First Draw	9/21/2023	2.4	
3	05-01-123-CF-P-3	Faucet 3, Classroom	Rm. 123, Science classroom, N	First Draw	9/21/2023	11.7	
4	05-01-124-DW-P-4	Water Cooler	Rm. 124, kitchen/teacher's lounge	First Draw	9/21/2023	<1.0	
5	05-01-124-DW-P-5	Refrigerator Water	Rm. 124, kitchen/teacher's lounge	First Draw	9/21/2023	<1.0	
6	05-01-124-DW-P-6	Refrigerator Ice	Rm. 124, kitchen/teacher's lounge	First Draw	9/21/2023	<1.0	
8	05-01-124-KF-P-8	Faucet	Rm. 124, kitchen/teacher's lounge	First Draw	9/21/2023	<1.0	
9	05-01-124-KF-P-9	Sprayer	Rm. 124, kitchen/teacher's lounge	First Draw	9/21/2023	<1.0	
15	05-01-128-DW-P-15	Water Cooler	Rm. 128, Cafeteria	First Draw	9/21/2023	<1.0	
16	05-01-128-KF-P-16	Faucet 1, Cafeteria	Rm. 128, Cafeteria kitchen, N	First Draw	9/21/2023	<1.0	
17	05-01-128-KF-P-17	Faucet 2, Cafeteria	Rm. 128, Cafeteria kitchen, S	First Draw	9/21/2023	<1.0	
18	05-01-115-CF-P-18	Faucet, Classroom	Rm. 115, classroom	First Draw	9/21/2023	<1.0	
19	05-01-114-CF-P-19	Faucet 1, Classroom	Rm. 114, Science classroom, E	First Draw	9/21/2023	1.2	
20	05-01-114-CF-P-20	Sprayer 1, Classroom	Rm. 114, Science classroom, E	First Draw	9/21/2023	1.5	
21	05-01-114-CF-P-21	Faucet 2, Classroom	Rm. 114, Science classroom, W	First Draw	9/21/2023	<1.0	
22	05-01-114-CF-P-22	Sprayer 2, Classroom	Rm. 114, Science classroom, W	First Draw	9/21/2023	<1.0	
12	05-01-H146-DW-P-12	Bottle filler	Hallway, Administration	First Draw	9/21/2023	<1.0	
26	05-01-H146-DW-P-26	Water Fountain	Hallway, Administration	First Draw	9/21/2023	<1.0	
28	05-01-H111-DW-P-28	Bottle filler	Hallway	First Draw	9/21/2023	<1.0	
29	05-01-139-CF-P-29	Faucet 1, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	184.0	Handwashing, curriculum use only; Signage and engineering control to limit use.
30	05-01-139-CF-P-30	Faucet 2, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	18.9	
31	05-01-139-CF-P-31	Faucet 3, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	14.7	
32	05-01-139-CF-P-32	Faucet 4, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	11.6	
33	05-01-139-CF-P-33	Faucet 5, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	26.3	
34	05-01-139-CF-P-34	Faucet 6, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	38.2	
35	05-01-139-CF-P-35	Faucet 7, Classroom	Rm. 139, Science classroom	First Draw	9/21/2023	53.3	

**TABLE 1  
Summary of Outlet Water Analytical Results  
Frontier School District: School of Excellence**

Map ID	Program Sample ID	Outlet Type	Location <i>(hall, room #, etc.)</i>	Sample Type	Initial Sample Date	Lead Results	Notes
	Format <b>(Bldg-floor-Rm-Outlet-Type-Sample Number)</b>					200.8 Method ug/L (ppb)	
38	05-01-00G-DW-P-38	Water Fountain	Gym	First Draw	9/21/2023	<1.0	
39	05-01-00G-DW-P-39	Water Fountain	Gym	First Draw	9/21/2023	<1.0	
<b>28</b>	<b>Total Building Outlets</b>						

**Notes:**

Blue Shading indicates outlets with concentrations at or above the Missouri Get the Lead Out of schools lead limit (5ppb)

Gray Shading indicates not applicable (NA) or no sample collected

< indicates concentrations below the laboratory reporting limits

All samples analyzed by Method 200.8 for Drinking Water

Bold text indicates detectable concentrations above the laboratory reporting limit

Exceedances of Missouri Lead Out Limit (5 ppb) as defined in the RSMo 160.077 indicate outlets that require remediation for use as drinking water

Sample IDs follow the EPA 3Ts Guidance; "P" indicates first draw, "F" indicates flush draw, "S" indicates retest of first draw; BF - Bathroom Faucet, CF - Classroom Faucet, KF - Kitchen Faucet, CW - Cleaning Water (Dishwasher), DW - Drinking Water (Fountains), NF or NS - Nurse's Sink

<sup>1</sup>Signage applied to prevent drinking water use. Outlet limited to handwashing and curriculum use only and will not serve as a potable drinking water source for the building.

**Outlets where water was not collected during sampling include the following:**

Outlet Type	Location	Note
Bottle Filler along sink	Rm. 124, kitchen/teacher's lounge (7)	Signage provided to prevent drinking
Bathroom, Tap	Men's Hall bathroom near Cafeteria, W (10)	
Bathroom, Tap	Men's Hall bathroom near Cafeteria, E (11)	
Custodial Tap	Janitor Closet faucet by bathrooms and Rm. 128	
Bathroom, Tap	Women's Hall bathroom near Cafeteria, E (13)	
Bathroom, Tap	Women's Hall bathroom near Cafeteria, W (14)	
Bathroom, Tap	Hall single, near Rm. 114, E (23)	
Bathroom, Tap	Hall single, near Rm. 114, C (24)	
Bathroom, Tap	Hall single, near Rm. 114, W (25)	
Bathroom, Tap	Hall single bathroom near Rm. 146 (27)	
Bathroom, Tap	Rm. 140 near Gym, Women's single (36)	
Bathroom, Tap	Rm. 140 near Gym, Men's single (37)	



**ATTACHMENT A**  
**School Contact Information**

## School District and Contact Information

**School Name:** Frontier School of Excellence

**School District:** Frontier School District

**Building ID:** 05

**School Type:** Charter

**School Address:** 5605 Troost Avenue  
Kansas City, Jackson County, Missouri 64120

**Phone:** (816) 683-8323 (O) and (816) 241-6201 (F)  
**Email:** mvural@frontierschools.org

**Contact:** Matthew Mercer  
Maintenance Manager  
(816) 683-8323 (O)

School	Level	Grade	Address
Frontier School of Excellence	Secondary	6th – 12th	5605 Troost Avenue Kansas City, MO 64120

**ATTACHMENT B**  
**Laboratory Analytical Report**



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

October 16, 2023

Rachel L. Dercher, RG  
Environmental Works, Inc.  
1731 Locust Street  
Kansas City, MO 64108

RE: Frontier Excellence -233451-05

Dear Rachel L. Dercher, RG:

Please find enclosed the analytical results for the **28** sample(s) the laboratory received on **9/22/23 10:30 am** and logged in under work order **GI04056**. 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](mailto:lisa.grant@pacelabs.com).

A handwritten signature in black ink, appearing to read "Chenise Lambert-Sykes".

Chenise Lambert-Sykes  
Project Manager  
(314)432-0550  
[Chenise.Lambert-Sykes@pacelabs.com](mailto:Chenise.Lambert-Sykes@pacelabs.com)



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GI04056

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

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**ANALYTICAL RESULTS**

**Sample:  
Name:**

**Sampled:  
Received:**

**Reg ID:**

**PO #:**

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Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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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





October 02, 2023

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

RE: Project: GI04056 Frontier Excellence 23  
Pace Project No.: 35830098

Dear Chenise Lambert-Sykes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2023. 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

Frontier Excellence 233451.05

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

Sincerely,

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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

**Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

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

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### SAMPLE ANALYTE COUNT

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35830098001	05-01-00G-DW-P-38	EPA 200.8	BSL	1	PASI-O
35830098002	05-01-00G-DW-P-39	EPA 200.8	BSL	1	PASI-O
35830098003	05-01-114-CF-P-19	EPA 200.8	BSL	1	PASI-O
35830098004	05-01-114-CF-P-20	EPA 200.8	EAP	1	PASI-O
35830098005	05-01-114-CF-P-21	EPA 200.8	BSL	1	PASI-O
35830098006	05-01-114-CF-P-22	EPA 200.8	BSL	1	PASI-O
35830098007	05-01-115-CF-P-18	EPA 200.8	BSL	1	PASI-O
35830098008	05-01-123-CF-P-1	EPA 200.8	BSL	1	PASI-O
35830098009	05-01-123-CF-P-2	EPA 200.8	BSL	1	PASI-O
35830098010	05-01-123-CF-P-3	EPA 200.8	BSL	1	PASI-O
35830098011	05-01-124-DW-P-4	EPA 200.8	BSL	1	PASI-O
35830098012	05-01-124-DW-P-5	EPA 200.8	BSL	1	PASI-O
35830098013	05-01-124-DW-P-6	EPA 200.8	BSL	1	PASI-O
35830098014	05-01-124-KF-P-8	EPA 200.8	BSL	1	PASI-O
35830098015	05-01-124-KF-P-9	EPA 200.8	BSL	1	PASI-O
35830098016	05-01-128-DW-P-15	EPA 200.8	BSL	1	PASI-O
35830098017	05-01-128-KF-P-15	EPA 200.8	BSL	1	PASI-O
35830098018	05-01-128-KF-P-17	EPA 200.8	BSL	1	PASI-O
35830098019	05-01-139-CF-P-29	EPA 200.8	BSL	1	PASI-O
35830098020	05-01-139-CF-P-30	EPA 200.8	BSL	1	PASI-O
35830098021	05-01-139-CF-P-31	EPA 200.8	BSL	1	PASI-O
35830098022	05-01-139-CF-P-32	EPA 200.8	BSL	1	PASI-O
35830098023	05-01-139-CF-P-33	EPA 200.8	BSL	1	PASI-O
35830098024	05-01-139-CF-P-34	EPA 200.8	BSL	1	PASI-O
35830098025	05-01-139-CF-P-35	EPA 200.8	BSL	1	PASI-O
35830098026	05-01-H111-DW-P-28	EPA 200.8	BSL	1	PASI-O
35830098027	05-01-H146-DW-P-12	EPA 200.8	BSL	1	PASI-O
35830098028	05-01-H146-DW-P-26	EPA 200.8	BSL	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-00G-DW-P-38</b>								
<b>Lab ID: 35830098001</b>								
Collected: 09/21/23 05:34								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 17:37	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-00G-DW-P-39      Lab ID: 35830098002      Collected: 09/21/23 05:34      Received: 09/22/23 10:30      Matrix: Drinking Water</b>								
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		09/28/23 17:42	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23  
 Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-114-CF-P-19</b>								
<b>Lab ID: 35830098003</b>								
Collected: 09/21/23 06:24 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	1.2	ug/L	1.0	1		09/28/23 17:43	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-114-CF-P-20</b>								
<b>Lab ID: 35830098004</b>								
Collected: 09/21/23 06:24 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	1.5	ug/L	1.0	1	09/29/23 08:14	10/02/23 12:07	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Sample: 05-01-114-CF-P-21	Lab ID: 35830098005	Collected: 09/21/23 06:24	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		09/28/23 17:44	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-114-CF-P-22      Lab ID: 35830098006      Collected: 09/21/23 06:24      Received: 09/22/23 10:30      Matrix: Drinking Water</b>								
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		09/28/23 17:49	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-115-CF-P-18</b>								
<b>Lab ID: 35830098007</b>								
Collected: 09/21/23 06:20 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 17:50	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-123-CF-P-1</b>								
<b>Lab ID: 35830098008</b>								
Collected: 09/21/23 05:28								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	3.9	ug/L	1.0	1		09/28/23 17:52	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-123-CF-P-2</b>								
<b>Lab ID: 35830098009</b>								
Collected: 09/21/23 05:29								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	2.4	ug/L	1.0	1		09/28/23 17:53	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-123-CF-P-3</b>								
<b>Lab ID: 35830098010</b>								
Collected: 09/21/23 05:29 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	11.7	ug/L	1.0	1		09/28/23 17:54	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-124-DW-P-4</b>								
<b>Lab ID: 35830098011</b>								
Collected: 09/21/23 05:50								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 17:56	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23  
 Pace Project No.: 35830098

Sample: 05-01-124-DW-P-5	Lab ID: 35830098012	Collected: 09/21/23 05:51	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach						
Lead	ND	ug/L	1.0	1		09/28/23 17:57	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-124-DW-P-6</b>								
<b>Lab ID: 35830098013</b>								
Collected: 09/21/23 05:53								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 17:59	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-124-KF-P-8</b>								
<b>Lab ID: 35830098014</b>								
Collected: 09/21/23 05:54								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:00	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-124-KF-P-9</b>								
<b>Lab ID: 35830098015</b>								
Collected: 09/21/23 05:56								
Received: 09/22/23 10:30								
Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:02	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Sample: 05-01-128-DW-P-15	Lab ID: 35830098016	Collected: 09/21/23 05:24	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:06	7439-92-1		

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-128-KF-P-15</b>								
<b>Lab ID: 35830098017</b>								
Collected: 09/21/23 05:25 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:07	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-128-KF-P-17</b>								
<b>Lab ID: 35830098018</b>								
Collected: 09/21/23 05:25 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:09	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-29</b>								
<b>Lab ID: 35830098019</b>								
Collected: 09/21/23 06:12 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	<b>184</b>	ug/L	1.0	1		09/28/23 18:10	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-30</b>								
<b>Lab ID: 35830098020</b>								
Collected: 09/21/23 06:12 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	<b>18.9</b>	ug/L	1.0	1		09/28/23 18:12	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Sample: 05-01-139-CF-P-31	Lab ID: 35830098021	Collected: 09/21/23 06:12	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach								
Lead	<b>14.7</b>	ug/L	1.0	1		09/28/23 18:19	7439-92-1		

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-32      Lab ID: 35830098022      Collected: 09/21/23 06:11      Received: 09/22/23 10:30      Matrix: Drinking Water</b>								
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	11.6	ug/L	1.0	1		09/28/23 18:26	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-33      Lab ID: 35830098023      Collected: 09/21/23 06:11      Received: 09/22/23 10:30      Matrix: Drinking Water</b>								
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	<b>26.3</b>	ug/L	1.0	1		09/28/23 18:27	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-34</b>								
<b>Lab ID: 35830098024</b>								
Collected: 09/21/23 06:10 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	<b>38.2</b>	ug/L	1.0	1		09/28/23 18:29	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-139-CF-P-35</b>								
<b>Lab ID: 35830098025</b>								
Collected: 09/21/23 06:10 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	53.3	ug/L	1.0	1		09/28/23 18:30	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 05-01-H111-DW-P-28</b>								
<b>Lab ID: 35830098026</b>								
Collected: 09/21/23 05:31 Received: 09/22/23 10:30 Matrix: Drinking Water								
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:32	7439-92-1	

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Sample: 05-01-H146-DW-P-12	Lab ID: 35830098027	Collected: 09/21/23 05:20	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:33	7439-92-1		

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### ANALYTICAL RESULTS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Sample: 05-01-H146-DW-P-26	Lab ID: 35830098028	Collected: 09/21/23 05:20	Received: 09/22/23 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 Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/28/23 18:34	7439-92-1		

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**QUALITY CONTROL DATA**

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

QC Batch:	953483	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:	35830098001, 35830098002, 35830098003, 35830098005, 35830098006, 35830098007, 35830098008, 35830098009, 35830098010, 35830098011, 35830098012, 35830098013, 35830098014, 35830098015, 35830098016, 35830098017, 35830098018, 35830098019, 35830098020		

METHOD BLANK:	5242507	Matrix:	Water
Associated Lab Samples:	35830098001, 35830098002, 35830098003, 35830098005, 35830098006, 35830098007, 35830098008, 35830098009, 35830098010, 35830098011, 35830098012, 35830098013, 35830098014, 35830098015, 35830098016, 35830098017, 35830098018, 35830098019, 35830098020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	09/28/23 18:16	

LABORATORY CONTROL SAMPLE:	5242508					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.5	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	5242503			5242504							
Parameter	Units	35830098001 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	51.9	52.1	104	104	70-130	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	5242505			5242506							
Parameter	Units	35830098020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	18.9	50	50	69.2	68.3	101	99	70-130	1	

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**QUALITY CONTROL DATA**

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

QC Batch:	953484	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:	35830098021, 35830098022, 35830098023, 35830098024, 35830098025, 35830098026, 35830098027, 35830098028		

METHOD BLANK:	5242516	Matrix:	Water
Associated Lab Samples:	35830098021, 35830098022, 35830098023, 35830098024, 35830098025, 35830098026, 35830098027, 35830098028		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	09/28/23 19:00	

LABORATORY CONTROL SAMPLE: 5242517						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.3	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5242512											5242513	
Parameter	Units	35830098021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
Lead	ug/L	14.7	50	50	65.4	66.5	101	104	70-130	2		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5242514											5242515	
Parameter	Units	20290418002 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	53.3	51.8	106	103	70-130	3		

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**QUALITY CONTROL DATA**

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

QC Batch:	953892	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Drinking Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35830098004

METHOD BLANK:	5245057	Matrix:	Water
Associated Lab Samples:	35830098004		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	10/02/23 12:01	

LABORATORY CONTROL SAMPLE: 5245058						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5245059												5245060	
Parameter	Units	35830098004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual		
Lead	ug/L	1.5	50	50	52.3	52.5	102	102	70-130	0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5245061												5245062	
Parameter	Units	35830651001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual		
Lead	ug/L	0.00022 U mg/L	50	50	48.7	49.0	97	98	70-130	1			

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## QUALIFIERS

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

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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

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.

### 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.

## REPORT OF LABORATORY ANALYSIS

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



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GI04056 Frontier Excellence 23

Pace Project No.: 35830098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35830098004	05-01-114-CF-P-20	EPA 200.8	953892	EPA 200.8	954083
35830098001	05-01-00G-DW-P-38	EPA 200.8	953483		
35830098002	05-01-00G-DW-P-39	EPA 200.8	953483		
35830098003	05-01-114-CF-P-19	EPA 200.8	953483		
35830098005	05-01-114-CF-P-21	EPA 200.8	953483		
35830098006	05-01-114-CF-P-22	EPA 200.8	953483		
35830098007	05-01-115-CF-P-18	EPA 200.8	953483		
35830098008	05-01-123-CF-P-1	EPA 200.8	953483		
35830098009	05-01-123-CF-P-2	EPA 200.8	953483		
35830098010	05-01-123-CF-P-3	EPA 200.8	953483		
35830098011	05-01-124-DW-P-4	EPA 200.8	953483		
35830098012	05-01-124-DW-P-5	EPA 200.8	953483		
35830098013	05-01-124-DW-P-6	EPA 200.8	953483		
35830098014	05-01-124-KF-P-8	EPA 200.8	953483		
35830098015	05-01-124-KF-P-9	EPA 200.8	953483		
35830098016	05-01-128-DW-P-15	EPA 200.8	953483		
35830098017	05-01-128-KF-P-15	EPA 200.8	953483		
35830098018	05-01-128-KF-P-17	EPA 200.8	953483		
35830098019	05-01-139-CF-P-29	EPA 200.8	953483		
35830098020	05-01-139-CF-P-30	EPA 200.8	953483		
35830098021	05-01-139-CF-P-31	EPA 200.8	953484		
35830098022	05-01-139-CF-P-32	EPA 200.8	953484		
35830098023	05-01-139-CF-P-33	EPA 200.8	953484		
35830098024	05-01-139-CF-P-34	EPA 200.8	953484		
35830098025	05-01-139-CF-P-35	EPA 200.8	953484		
35830098026	05-01-H111-DW-P-28	EPA 200.8	953484		
35830098027	05-01-H146-DW-P-12	EPA 200.8	953484		
35830098028	05-01-H146-DW-P-26	EPA 200.8	953484		

### REPORT OF LABORATORY ANALYSIS

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

Internal Transfer Chain of Custody

State of Origin: MO  
 Cert. Needed:



Workorder: G104056

Worker Name: 233451.05-Drinking

Owner Received Date: 9/21/2023

Results Requested By: 10/5/2023

Report To: Chenise Lambert-Sykes  
 Pace Hazelwood  
 944 Anglum Road  
 Hazelwood, MO 63042  
 Phone 800.333.3278

Subcontract To: Pace Analytical Ormand Beach  
 8 East Tower Circle  
 Ormond Beach, FL 32174  
 386-672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Received By	Date/Time	Comments
1	05-01-00G-DW-P-38	Grab	9/21/2023	G104056-01	DW	AS	9/21/2023	
2	05-01-00G-DW-P-39	Grab	9/21/2023	G104056-02	DW	AS	9/21/2023	
3	05-01-114-CF-P-19	Grab	9/21/2023	G104056-03	DW	AS	9/21/2023	
4	05-01-114-CF-P-20	Grab	9/21/2023	G104056-04	DW	AS	9/21/2023	
5	05-01-114-CF-P-21	Grab	9/21/2023	G104056-05	DW	AS	9/21/2023	
6	05-01-114-CF-P-22	Grab	9/21/2023	G104056-06	DW	AS	9/21/2023	
7	05-01-115-CF-P-18	Grab	9/21/2023	G104056-07	DW	AS	9/21/2023	
8	05-01-123-CF-P-1	Grab	9/21/2023	G104056-08	DW	AS	9/21/2023	
9	05-01-123-CF-P-2	Grab	9/21/2023	G104056-09	DW	AS	9/21/2023	
10	05-01-123-CF-P-3	Grab	9/21/2023	G104056-10	DW	AS	9/21/2023	
Transfers Released By								
1						AS	9/21/2023	
2						AS	9/21/2023	
3						AS	9/21/2023	

Cooler Temperature on Receipt 71.2 °C Custody Seal Y or N Y Received on Ice Y or N Y Sample Intact Y or N Y

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Internal Transfer Chain of Custody

State of Origin: MO  
 Cert. Needed:  YES

**MO# : 35830098**  
 PM: BTS Due Date: 09/28/23  
 CLIENT: PACHRAZ

Workorder: G104056  
 Workorder Name: 233451.05-Drinking  
 Date: 9/21/2023  
 Results Requested: 10/5/2023

Report To: Frontier Excellence  
 Pace Analytical Ormond Beach  
 8 East Tower Circle  
 Ormond Beach, FL 32174  
 386-672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Received By	Date/Time	Comments
1	05-01-124-DW-P-4	Grab	9/21/2023	0550	DW	NS/Mark	9/22/2023	LAB USE ONLY
2	05-01-124-DW-P-5	Grab	9/21/2023	0551	DW			
3	05-01-124-DW-P-6	Grab	9/21/2023	0553	DW			
4	05-01-124-KF-P-8	Grab	9/21/2023	0554	DW			
5	05-01-124-KF-P-9	Grab	9/21/2023	0556	DW			
6	05-01-128-DW-P-15	Grab	9/21/2023	0524	DW			
7	05-01-128-KF-P-16	Grab	9/21/2023	0525	DW			
8	05-01-128-KF-P-17	Grab	9/21/2023	0525	DW			
9	05-01-139-CF-P-29	Grab	9/21/2023	0612	DW			
10	05-01-139-CF-P-30	Grab	9/21/2023	0612	DW			
Transfers Released By								
10 DAY TAT, Report to 1PPB, STD EXCEL EDD								
LOG CLIENT SAMP. ID: Proj. Frontier Excellence 233451.05								

Cooler Temperature on Receipt: 21.2 °C Custody Seal Y or N: Received on Ice Y or N: Sample Intact Y or N:

\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Internal Transfer Chain of Custody

State of Origin: MO  
 Cert. Needed:  YES  NO

**MO# : 35830098**  
 PM: BTS Due Date: 09/28/23  
 CLIENT: PACHAZ

Workorder: G104056

Frontier Excellence  
 233451.05-Drinking

Owner Received  
 Date: 9/21/2023

Results Requested  
 By: 10/5/2023

**Report To:** Chemise Lambert-Sykes  
 Pace Hazelwood  
 944 Anglum Road  
 Hazelwood, MO 63042  
 Phone 800.333.3278

**Subcontract To:** Pace Analytical Ormand Beach  
 8 East Tower Circle  
 Ormond Beach, FL 32174  
 386-672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	DW Lead (Pb)	Turb Check	Requested Analysis
1	05-01-139-CF-P-31	Grab	9/21/2023	0612	G104056-21	DW	X	X	
2	05-01-139-CF-P-32	Grab	9/21/2023	0611	G104056-22	DW	X	X	
3	05-01-139-CF-P-33	Grab	9/21/2023	0611	G104056-23	DW	X	X	
4	05-01-139-CF-P-34	Grab	9/21/2023	0610	G104056-24	DW	X	X	
5	05-01-139-CF-P-35	Grab	9/21/2023	0610	G104056-25	DW	X	X	
6	05-01-H111-DW-P-28	Grab	9/21/2023	0531	G104056-26	DW	X	X	
7	05-01-H146-DW-P-12	Grab	9/21/2023	0520	G104056-27	DW	X	X	
8	05-01-H146-DW-P-26	Grab	9/21/2023	0520	G104056-28	DW	X	X	
9									
10									

Transfers Released By: [Signature] Received By: [Signature] Date/Time: 9/22/23

Cooler Temperature on Receipt: 21.2 °C Custody Seal Y or N: [Signature]

Received on Ice Y or N: [Signature] Sample Intact Y or N: [Signature]

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Mix Workorder/Login Label Here



Scan QR Code for instructions

Company Name: ENVIRONMENTAL WORKS  
 Street Address: 1731 LOCUST ST, KANSAS CITY, MO 64108  
 Contact/Report To: Dercher, Rachel  
 Phone #: (816)285-8426  
 E-Mail: rdercher@environmentalworks.com  
 Customer Project #: 233451 05 Frontier Excellence  
 Invoice To: Frontier Schools  
 Invoice E-Mail:  
 Purchase Order # (if applicable):  
 Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET  
 County / State origin of sample(s): Missouri  
 Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SD), Sludge (SL), Caulk  
 Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV  
 [ ] EQUIS  
 [ ] Other  
 Regulatory Program (DW, RCRA, etc.) as applicable:  
 Rush (Pre-approval required):  
 Date Results Requested: 10/5/2023  
 DW PWSID # or WW Permit # as applicable:  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. CL2	Number & Type of Containers	Plastic	Glass
			Date	Time	Date	Time				
05-01-00G-DW-P-38	DW	G	9/21/2023	0534				1		
05-01-00G-DW-P-39	DW			0534						
05-01-114-CF-P-19	DW			0624						
05-01-114-CF-P-20	DW			0624						

Customer Remarks / Special Conditions / Possible Hazards:  
 EDD  
 Red 1 M/L  
 Relinquished by/Company (Signature): *[Signature]* EWT  
 Date/Time: 9/21/2023 10:43  
 Received by/Company (Signature): *[Signature]*  
 Date/Time: 9/21/10:43  
 Relinquished by/Company (Signature): *[Signature]*  
 Date/Time: 9/21/10:30  
 Received by/Company (Signature): *[Signature]*  
 Date/Time: 9/21/10:30  
 Additional Instructions from Pace\*:  
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)  
 Tracking Number:  
 Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other  
 Page: 1 of 5

Specify Container Size **	Identify Container Preservative Type ***	Analysis Requested	Proj. Mgr. Chemise Lambert-Sykes	AcctNum / Client ID:	Lab Use Only	Sample Comment
125mL, (5) 100mL, (6) 40mL vial, (7) 250mL, (4) 100mL, (9) Other <td></td> <td></td> <td></td> <td></td> <td>Profile / Template: Hazelwood event Prelog / Bottle Ord. ID: 1143139</td> <td>200.B Lead</td>					Profile / Template: Hazelwood event Prelog / Bottle Ord. ID: 1143139	200.B Lead
**Container size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) 250mL, (8) 100mL, (9) Other						
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) NaOH, (11) Other						



### CHAIN-OF-CUSTODY Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Attix Workorder/Lab Label here

Company Name: ENVIRONMENTAL WORKS  
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108

Contact/Report To: Dercher, Rachel  
 Phone #: (816) 285-8426  
 E-Mail: rdercher@environmentalworks.com  
 CC E-Mail:

Scan QR Code for instructions

Customer Project #: 233451.05 Frontier Excellence

Invoice To: Frontier Schools  
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):

Purchase Order # (if applicable):  
 Quote #:

Time Zone Collected:  AK  PT  MT  CT  ET

Country / State origin of sample(s): Missouri

Data Deliverables:

Regulatory Program (DW, RCRA, etc.) as applicable:

Level II  Level III  Level IV

Rush (Pre-approval required): **Get the lead out**

EQUIS

Date Results Requested: 10/5/2023

Field Filtered (if applicable):  Yes  No

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biossassy (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. CL2	Number & Type of Containers Plastic Glass	200.8 Lead
			Date	Time	Date	Time			
05-01-114-CF-P-21	DW	G	9/21/2023	0624	9/21/2023	0624		1	X
05-01-114-CF-P-22	DW	I		0624		0624		1	X
05-01-115-CF-P-18	DW	I		0620		0620		1	X
<del>05-01-120-CF-P-11</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>
05-01-123-CF-P-1	DW	G	9/21/2023	0528				1	X
05-01-123-CF-P-2	DW	I		0529				1	X
05-01-123-CF-P-3	DW	I		0529				1	X
05-01-124-DW-P-4	DW	I		0550				1	X
05-01-124-DW-P-5	DW	I		0551				1	X
05-01-124-DW-P-6	DW	I		0553				1	X

Customer Remarks / Special Conditions / Possible Hazards:

Meet w/ug/c  
 GDD

Collected By: Kali Wellman  
 Printed Name: Kali Wellman  
 Signature: Kali Wellman

Additional Instructions from Pace:

# Coolers: Thermometer ID: Correction Factor (C): Obs. Temp. (C) Corrected Temp. (C)

Relinquished by/Company: (Signature) *[Signature]* EWT

Date/Time: 9/21/2023

Received by/Company: (Signature) *[Signature]*

Date/Time: 9-21/10:43

Tracking Number: Delivered by:  In Person  Courier  FedEx  UPS  Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Page: 2 of 5

Pace\* Location Requested (City/State):  
 Pace Analytical Kansas  
 9608 Lorent Blvd., Lenexa, KS 66219

### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Aftix Workorder/Login Label Here

Company Name: ENVIRONMENTAL WORKS  
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108

Contact/Report To: Dercher, Rachel  
 Phone #: (816)285-8426  
 E-Mail: rdercher@environmentalworks.com  
 CC E-Mail:

Scan QR Code for instructions

Customer Project #: 233451.05 Frontier Excellence  
 Project Name: 233451.05 Frontier Excellence

Invoice To: Frontier Schools  
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):  
 Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

Purchase Order # (if applicable):  
 Quote #:

Data Deliverables:  
 Level II [ ] Level III [ ] Level IV

Regulatory Program (DW, RCRA, etc.) as applicable:  
 Rush (Pre-approval required):  
 2 Day  3 day  5 day  Other

DW PWSID # or WW Permit # as applicable:  
 Field Filtered (if applicable): [ ] Yes [X] No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (O), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res. CL2	Number # Type of Containers Plastic Glass
<del>05-01-124-DW-P-7</del>	<del>DW</del>	<del>G</del>	<del>9/21/2023</del>	<del>0554</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>1</del>
05-01-124-KF-P-8	DW	G	9/21/2023	0554	---	---	---	1
05-01-124-KF-P-9	DW			0556				
05-01-128-DW-P-15	DW			0524				
05-01-128-KF-P-16	DW			0525				
05-01-128-KF-P-17	DW			0525				
05-01-139-CF-P-29	DW			0612				
05-01-139-CF-P-30	DW			0612				
05-01-139-CF-P-31	DW			0612				
05-01-139-CF-P-32	DW			0611				

Customer Remarks / Special Conditions / Possible Hazards:  
 EDD  
 Next bag/L

Collected By: Kali Wellman  
 Printed Name: Kali Wellman  
 Signature: Kali Wellman

Relinquished by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Received by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Relinquished by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Received by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Relinquished by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Received by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Relinquished by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Received by/Company (Signature): Kali Wellman  
 Date/Time: 9/21/2023

Specify Container Size \*\*  
 125mL (5) 100mL (6) 40mL vial (7) Encore (8)  
 TeraCore (9) Other  
 Identify Container Preservative Type \*\*\*  
 H2SO4 (4) HCl (5) NaOH (6) Zn Acetate (7)  
 NaHSO4 (8) Sod. Thiosulfate (9) Ascorbic Acid (10)  
 MeOH (11) Other  
 Analysis Requested

Lab Use Only  
 Chemise Lambert-Sykes  
 Actnum / Client ID:  
 Table #:  
 Profile / Template:  
 Hazelwood event  
 Prelog / Bottle Ord. ID:  
 1143139  
 Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace\*:  
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Date/Time: 9-21/2023  
 Date/Time: 9/21/2023 1030

Date/Time: 9/21/2023  
 Date/Time: 9/21/2023 1030

Date/Time: 9/21/2023  
 Date/Time: 9/21/2023 1030

Date/Time: 9/21/2023  
 Date/Time: 9/21/2023 1030

Tracking Number:  
 Delivered by: [ ] In-Person [ ] Courier  
 FedEx  UPS  Other

Page: 3 of 5

Pace\* Location Requested (City/State):  
 Pace Analytical Kansas  
 9608 Lorent Blvd., Lanevexa, KS 66219

### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ENVIRONMENTAL WORKS  
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108

Customer Project #: 233451 05 Frontier Excellence  
 Project Name:

Contact/Report To: Dercher, Rachel  
 Phone #: (816)285-8426  
 E-Mail: rdercher@environmentalworks.com  
 CC E-Mail:  
 Invoice To: **Frontier Schools**  
 Invoice E-Mail:  
 Purchase Order # (if applicable):  
 Quote #:

Site Collection Info/Facility ID (as applicable):

County / State origin of sample(s): Missouri

Time Zone Collected:  AK  PT  MT  CT  ET

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush [Pre-approval required]: **Get the lead out**  
 DW PWSID # or WW Permit # as applicable:

Data Deliverables:  
 Level II  Level III  Level IV  
 EQUIS  
 Other

Date Results Requested: **10/5/2023**

Field Filtered (if applicable):  Yes  No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. CL2	Number & Type of Containers Plastic Glass	200.8 Lead
			Date	Time	Date	Time			
05-01-139-CF-P-33	DW	G	9/21/2023	0611			1	X	
05-01-139-CF-P-34	DW	I		0610			1	X	
05-01-139-CF-P-35	DW	I		0610			1	X	
<del>05-01-140-BF-P-30</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	
<del>05-01-140-BF-P-37</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	
05-01-H111-DW-P-28	DW	G	9/21/2023	0531			1	X	
<del>05-01-H111-DW-P-29</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	
<del>05-01-H111-DW-P-24</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	
<del>05-01-H111-DW-P-25</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	
<del>05-01-H111-DW-P-20</del>	<del>DW</del>	<del>I</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>X</del>	

Customer Remarks / Special Conditions / Possible Hazards:  
**Met 1mg/L**  
**EDD**

Collected By: **Kali Wellman**  
 Signature: *Kali Wellman*

Received By: **Kali Wellman**  
 Signature: *Kali Wellman*

Additional Instructions from Pace\*  
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
<i>[Signature]</i>	9/21/2023	<i>[Signature]</i>	9-21/10:43	
<i>[Signature]</i>		<i>[Signature]</i>	9/20/23 10:30	
				Delivered by: <input type="checkbox"/> In-Person <input type="checkbox"/> Courier <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Page: 4 of 5

ENV-FRM-CORO-0019\_v01\_082123 ©

Pace\* Location Requested (City/State):  
 Pace Analytical Kansas  
 9608 Lorain Blvd., Lenexa, KS 66219

### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - ATRX Workorder/login Label Here

Company Name: ENVIRONMENTAL WORKS  
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108

Contact/Report To: Dercher, Rachel  
 Phone #: (816)285-8426  
 E-Mail: rdercher@environmentalworks.com  
 CC E-Mail:

Project Name: 233451.05 Frontier Excellence  
 Invoice To: Frontier Schools  
 Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):  
 Purchase Order # (if applicable):  
 Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET  
 County / State origin of sample(s): Missouri

Data Deliverables:  
 N Level II [ ] Level III [ ] Level IV  
 [ ] EQUIS  
 [ ] Other \_\_\_\_\_  
 Regulatory Program (DW, RCRA, etc.) as applicable:  
 Rush [Pre-approval required]:  
 [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other \_\_\_\_\_  
 Date Results Requested: 10/5/2023  
 Field Filtered (if applicable): [ ] Yes [X] No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (O), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. Containers		Number & Type of Containers	Lead
			Date	Time	Date	Time	CL2	Plastic / Glass		
05-01-H146-DW-P-12	DW	G	9/21/2023	0520	—	—	—	—	1	X
05-01-H146-DW-P-26	DW	G	9/21/2023	0520	—	—	—	—	1	X
05-01-H146-DW-P-27	DW	G	9/21/2023	0520	—	—	—	—	1	X
05-01-H146-DW-P-28	DW	G	9/21/2023	0520	—	—	—	—	1	X

Customer Remarks / Special Conditions / Possible Hazards:  
 Must log/L  
 EDD

Collected By: Kati Wellman  
 Printed Name: Kati Wellman  
 Signature: Kati Wellman

Additional Instructions from Pace\*:  
 # Coolers: Thermometer ID: Correction Factor (C): Obs. Temp (C) Corrected Temp (C)

Relinquished by/Company (Signature): Kati Wellman  
 Date/Time: 9/21/2023

Received by/Company (Signature): Kati Wellman  
 Date/Time: 9/21/10:43

Relinquished by/Company (Signature): EWT  
 Date/Time: 9/22/23 1030

Received by/Company (Signature): EWT  
 Date/Time: 9/22/23 1030

Relinquished by/Company (Signature):  
 Date/Time:

Received by/Company (Signature):  
 Date/Time:



Ship to :  
Pace Analytical Ormond B  
8 East Tower Circle  
Ormond Beach, FL 32174  
386.672.5668

INTER LABORATORY WORK ORDER #	G104056		
(To be complete by sending lab)	Sending Project No:	Receiving Project No:	Check Box for Consolidated Invoice:
	Date Prepared:	REQUESTED COMPLETION DATE:	10/5/2023

Sending Region	IR#-72 Hazelwood	Sending Project Mgr.	Chenise Lambert-Sykes
Receiving Region	IR#35 Pace Ormond	External Client	Environmental Works, Inc.
State of Sample Origin	MO	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ ppb Report Wet or Dry Weight? \_\_\_\_\_ wet Cert Needed: \_\_\_\_\_ No

WORK REQUESTED						
Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
DW Lead	228 ml UP	28	None	28	\$14.00	\$392.00
Turb Check	228 ml UP	28	None	28	\$0.00	\$0.00
<b>TOTAL</b>						

Special Requirements: 10 Day TAT, SAMPLES UNPRESERVED, REPORT to 1 PPB, EXCEL EDD  
Special Requirements: Project = Frontier Excellence 233451.05 DW Pb; Use Client IDs for Report

Receiving Region Department	Actg. Code	Totals from above	Receiving Region (80%)	Sending Region (20%)	Client Services Dept.
			\$313.60	\$78.40	
			\$392.00	\$78.40	
			\$313.60	\$78.40	
* Custom Revenue Allocation					

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO  
Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED  
Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to incorporate as needed.

Sample Condition Upon Receipt Form (SCUR)

**MO# : 35830098**  
 PM: BTS  
 CLIENT: PACHAZ  
 Due Date: 09/28/23

**Project #**  
**Project Manager:**  
**Client:**

Thermometer Used: 1-414

State of Origin:

Cooler #1 Temp. °C	21.3 (Visual)	-0.1 (Correction Factor)	21.2 (Actual)
Cooler #2 Temp. °C	(Visual)	(Correction Factor)	(Actual)
Cooler #3 Temp. °C	(Visual)	(Correction Factor)	(Actual)
Cooler #4 Temp. °C	(Visual)	(Correction Factor)	(Actual)
Cooler #5 Temp. °C	(Visual)	(Correction Factor)	(Actual)
Cooler #6 Temp. °C	(Visual)	(Correction Factor)	(Actual)
Recheck for OOT °C	(Visual)	(Correction Factor)	(Actual)

For WV projects, all containers vented to 58 °C

- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun

Time: \_\_\_\_\_  
 Initials: \_\_\_\_\_

Shipping Method:  Standard Overnight  Priority Overnight  Ground  International Priority  Other

Tracking # 6432 1392 5551

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Samples shorted to lab:  Yes  No (If yes, complete the following)

Shorted Date: \_\_\_\_\_  
 Shorted Time: \_\_\_\_\_

Chain of Custody: Present  Yes  No Filled Out  Yes  No Relinquished From Pace:  Yes  No Sampler Name:  Yes  No

Samples Arrived within Hold Time:  Yes  No

Rush Turnaround Requested on COC:  Yes  No

Sufficient Volume:  Yes  No

Correct Containers Used:  Yes  No

Containers Intact:  Yes  No

Sample Labels Match COC (Sample  Date  Time of Collection):  Yes  No

All containers needing acid/base preservative have been checked:  Yes  No

EPA recommendation:  Yes  No

Headline in Volume:  Yes  No

The Bank Present:  Yes  No

Comments / Resolutions (Use back for additional comments):

Preservative Information	Preservative: <b>HN03</b>	Lot / Trace: <b>3514736</b>	Amount added (mL): <b>1</b>
Retention Information	Date: <b>9-26-23</b>	Time: <b>1447</b>	Initials: <b>Nol</b>

Internal Transfer Chain of Custody



State of Origin: MO  
 Cert. Needed:  YES  NO

Workorder: GI04056      **Workorder Name:** Frontier Excellence 233451.05-Drinking      **Owner Received Date:** 9/21/2023      **Results Requested By:** 10/5/2023

Report To:	Subcontract To:	Requested Analysis																					
Chenise Lambert-Sykes Pace Hazelwood 944 Anglum Road Hazelwood, MO 63042 Phone 800.333.3278	Pace Analytical Ormand Beach 8 East Tower Circle Ormond Beach, FL 32174 386-672-5668																						
		Preserved Containers								DW Lead (Pb)	Turb Check												

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix																		LAB USE ONLY
1	05-01-00G-DW-P-38	Grab	9/21/2023 0534	GI04056-01	DW							X	X										
2	05-01-00G-DW-P-39	Grab	9/21/2023 0534	GI04056-02	DW							X	X										
3	05-01-114-CF-P-19	Grab	9/21/2023 0624	GI04056-03	DW							X	X										
4	05-01-114-CF-P-20	Grab	9/21/2023 0624	GI04056-04	DW							X	X										
5	05-01-114-CF-P-21	Grab	9/21/2023 0624	GI04056-05	DW							X	X										
6	05-01-114-CF-P-22	Grab	9/21/2023 0624	GI04056-06	DW							X	X										
7	05-01-115-CF-P-18	Grab	9/21/2023 0620	GI04056-07	DW							X	X										
8	05-01-123-CF-P-1	Grab	9/21/2023 0528	GI04056-08	DW							X	X										
9	05-01-123-CF-P-2	Grab	9/21/2023 0529	GI04056-09	DW							X	X										
10	05-01-123-CF-P-3	Grab	9/21/2023 0529	GI04056-10	DW							X	X										

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1					*SAMPLES UNPRESERVED AT COLLECTION 10 DAY TAT, Report to 1PPB, <b>STD EXCEL EDD</b> LOG CLIENT SAMP. ID; Proj. <b>Frontier Excellence 233451.05</b>
2					
3					

<b>Cooler Temperature on Receipt</b>	<b>°C</b>	<b>Custody Seal Y or N</b>	<b>Received on Ice Y or N</b>	<b>Sample Intact Y or N</b>
--------------------------------------	-----------	----------------------------	-------------------------------	-----------------------------

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



State of Origin: MO

Cert. Needed:  YES  NO

Workorder: GI04056 Workorder Name: 233451.05-Drinking Frontier Excellence Owner Received Date: 9/21/2023 Results Requested By: 10/5/2023

Report To: Chenise Lambert-Sykes Pace Hazelwood 944 Anglum Road Hazelwood, MO 63042 Phone 800.333.3278 Subcontract To: Pace Analytical Ormand Beach 8 East Tower Circle Ormond Beach, FL 32174 386-672-5668 Requested Analysis table with columns for various analytes.

Table with columns: Item, Sample ID, Sample Type, Collect Date/Time, Lab ID, Matrix, Preserved Containers (5 columns), DW Lead (Pb), Turb Check, 10 analyte columns, and LAB USE ONLY. Rows 1-10 contain sample data.

Transfers table with columns: Transfers, Released By, Received By, Date/Time, Comments. Comments include: \*SAMPLES UNPRESERVED AT COLLECTION 10 DAY TAT, Report to 1PPB, STD EXCEL EDD LOG CLIENT SAMP. ID; Proj. Frontier Excellence 233451.05

Footer table with columns: Cooler Temperature on Receipt °C, Custody Seal Y or N, Received on Ice Y or N, Sample Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.



Internal Transfer Chain of Custody



State of Origin: MO

Cert. Needed:  YES  NO

Workorder: GI04056      **Workorder Name:** Frontier Excellence 233451.05-Drinking      **Owner Received Date:** 9/21/2023      **Results Requested By:** 10/5/2023

Report To:	Subcontract To:	Requested Analysis
Chenise Lambert-Sykes Pace Hazelwood 944 Anglum Road Hazelwood, MO 63042 Phone 800.333.3278	Pace Analytical Ormand Beach 8 East Tower Circle Ormond Beach, FL 32174 386-672-5668	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers								DW Lead (Pb)	Turb Check	LAB USE ONLY
1	05-01-139-CF-P-31	Grab	9/21/2023 0612	GI04056-21	DW								X	X		
2	05-01-139-CF-P-32	Grab	9/21/2023 0611	GI04056-22	DW								X	X		
3	05-01-139-CF-P-33	Grab	9/21/2023 0611	GI04056-23	DW								X	X		
4	05-01-139-CF-P-34	Grab	9/21/2023 0610	GI04056-24	DW								X	X		
5	05-01-139-CF-P-35	Grab	9/21/2023 0610	GI04056-25	DW								X	X		
6	05-01-H111-DW-P-28	Grab	9/21/2023 0531	GI04056-26	DW								X	X		
7	05-01-H146-DW-P-12	Grab	9/21/2023 0520	GI04056-27	DW								X	X		
8	05-01-H146-DW-P-26	Grab	9/21/2023 0520	GI04056-28	DW								X	X		
9																
10																

Transfers	Released By	Received By	Date/Time	Comments
1				*SAMPLES UNPRESERVED AT COLLECTION 10 DAY TAT, Report to 1PPB, <b>STD EXCEL EDD</b> LOG CLIENT SAMP. ID; Proj. <b>Frontier Excellence 233451.05</b>
2				
3				

Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

**ATTACHMENT C**  
Photo Documentation

## Water Outlet Photo Documentation

Frontier School of Excellence  
6455 E Commerce Avenue  
Kansas City, Jackson County, Missouri 64120



*Prepared by*  
Environmental Works, Inc.  
1731 Locust Street  
Kansas City, MO 64108

*Prepared for*  
Frontier Schools  
6800 Corporate Drive  
Kansas City, MO 64120

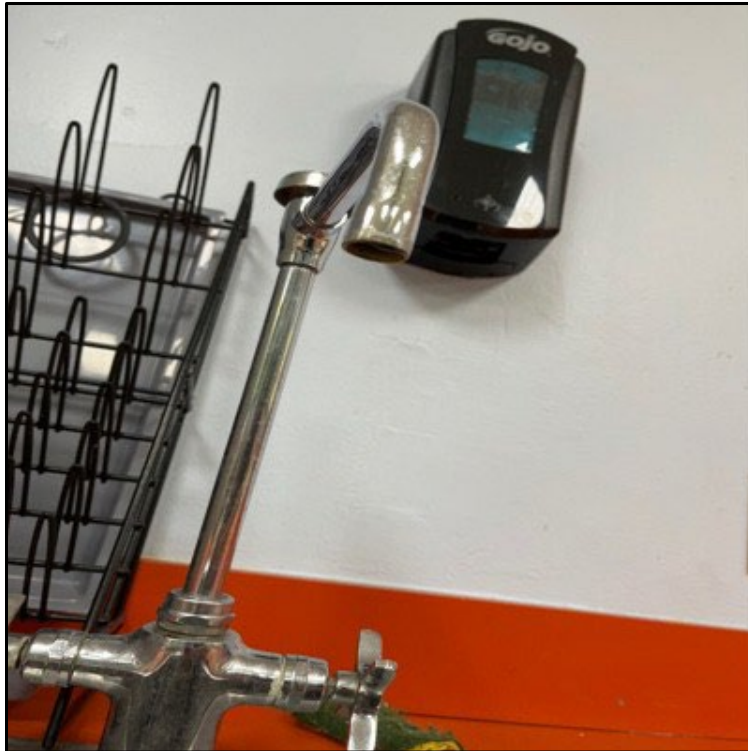
September 21, 2023  
Project # 233451.05



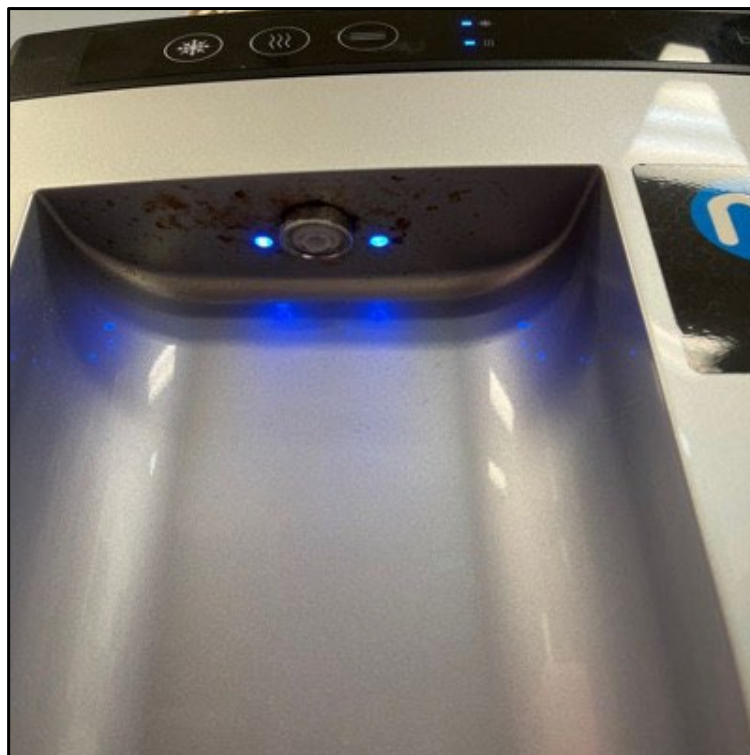
View of potential DWO and sample 05-01-123-CF-P-1



View of potential DWO and sample 05-01-123-CF-P-2



View of potential DWO and sample 05-01-123-CF-P-3



View of potential DWO and sample 05-01-124-DW-P-4



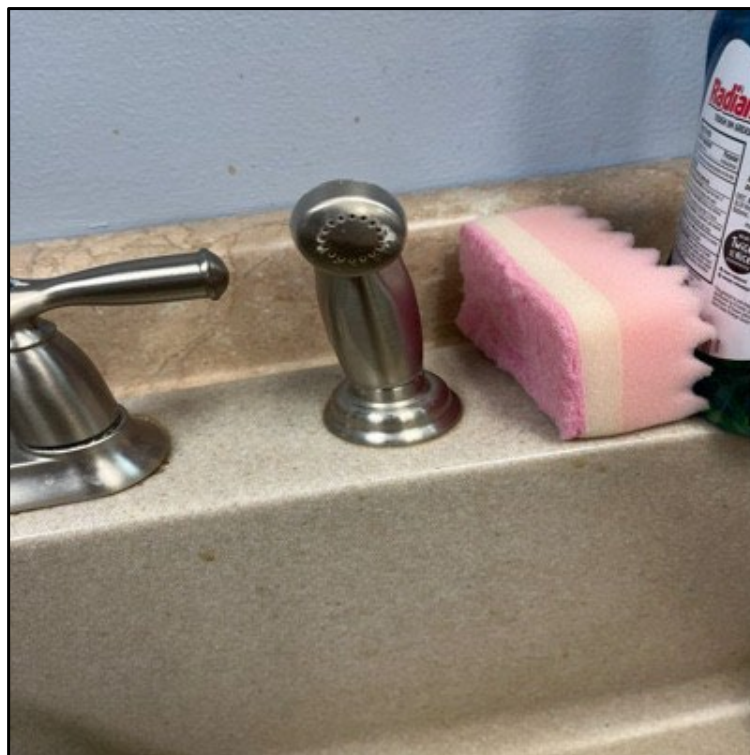
View of potential DWO and sample 05-01-124-DW-P-5



View of potential DWO and sample 05-01-124-DW-P-6



View of potential DWO and sample 05-01-124-KF-P-8



View of potential DWO and sample 05-01-124-KF-P-9

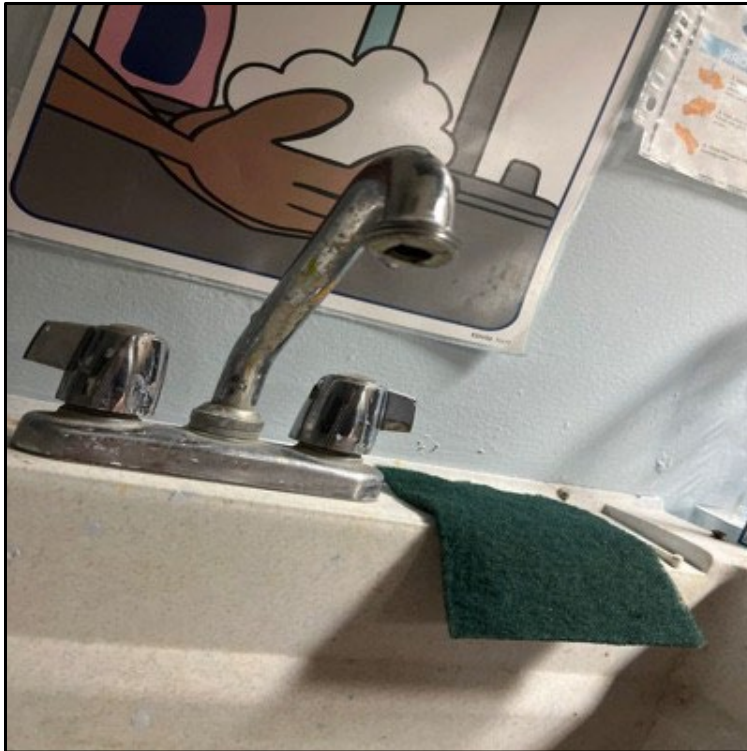


View of potential DWO and sample 05-01-H146-DW-P-12



View of potential DWO and sample 05-01-128-DW-P-15





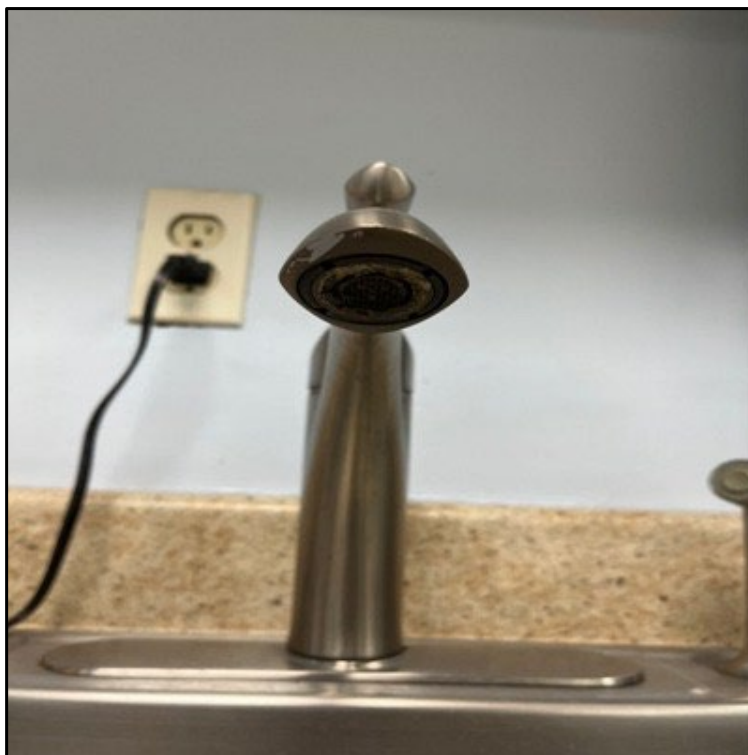
View of potential DWO and sample 05-01-128-KF-P-16



View of potential DWO and sample 05-01-128-KF-P-17



View of potential DWO and sample 05-01-115-CF-P-18



View of potential DWO and sample 05-01-114-CF-P-19



View of potential DWO and sample 05-01-114-CF-P-20



View of potential DWO and sample 05-01-114-CF-P-21



View of potential DWO and sample 05-01-114-CF-P-22



View of potential DWO and sample 05-01-H146-DW-P-26



View of potential DWO and sample 05-01-H111-DW-P-28



View of potential DWO and sample 05-01-139-CF-P-29



View of potential DWO and sample 05-01-139-CF-P-30



View of potential DWO and sample 05-01-139-CF-P-31



View of potential DWO and sample 05-01-139-CF-P-32



View of potential DWO and sample 05-01-139-CF-P-33



View of potential DWO and sample 05-01-139-CF-P-34



View of potential DWO and sample 05-01-139-CF-P-35





View of potential DWO and sample 05-01-00G-DW-P-38



View of potential DWO and sample 05-01-00G-DW-P-39