

November 17, 2023 (Amended December 11, 2024)

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 STEM High School

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) Science, Technology, Engineering, and Math (STEM) High School located at 6455 E Commerce 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 and additional sampling during the August 2024 – July 2025 school year. Sampling and testing was performed to satisfy the requirement of "Get the Lead Out of School Drinking Water Act", Revised Statues 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(s) are attached as **Figure 1** and **2** and the outlets identified in the inventory are listed in **Table 1**.

#### **Initial Sampling and Testing**

On September 15, 2023 and September 17, 2024, EWI collected a total of 32 "first draw" samples from DWOs identified in the inventory including eight (8) additional DWOs that were put back in service after September 2023. 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 STEM High School was occupied by students and staff prior to the initial sampling; therefore, flushing of water outlets was not necessary. 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 six (6) outlets located in biology classroom (Rm. 205). Of these six (6) samples, two (2) were above the 15 ug/L EPA lead drinking water standard. The remaining 26 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 are 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 and 2024 sampling results indicate all outlets utilized within the Frontier STEM High School building, excluding laboratory sinks which are under restricted use, are non-detectible 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.

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):

Environmental Works, Inc. Page 2 of 3

Figure 1 – Building Diagram (First Floor)

Figure 2 – Building Diagram (Second Floor)

Table 1 – Summary of Outlet Water Analytical Results

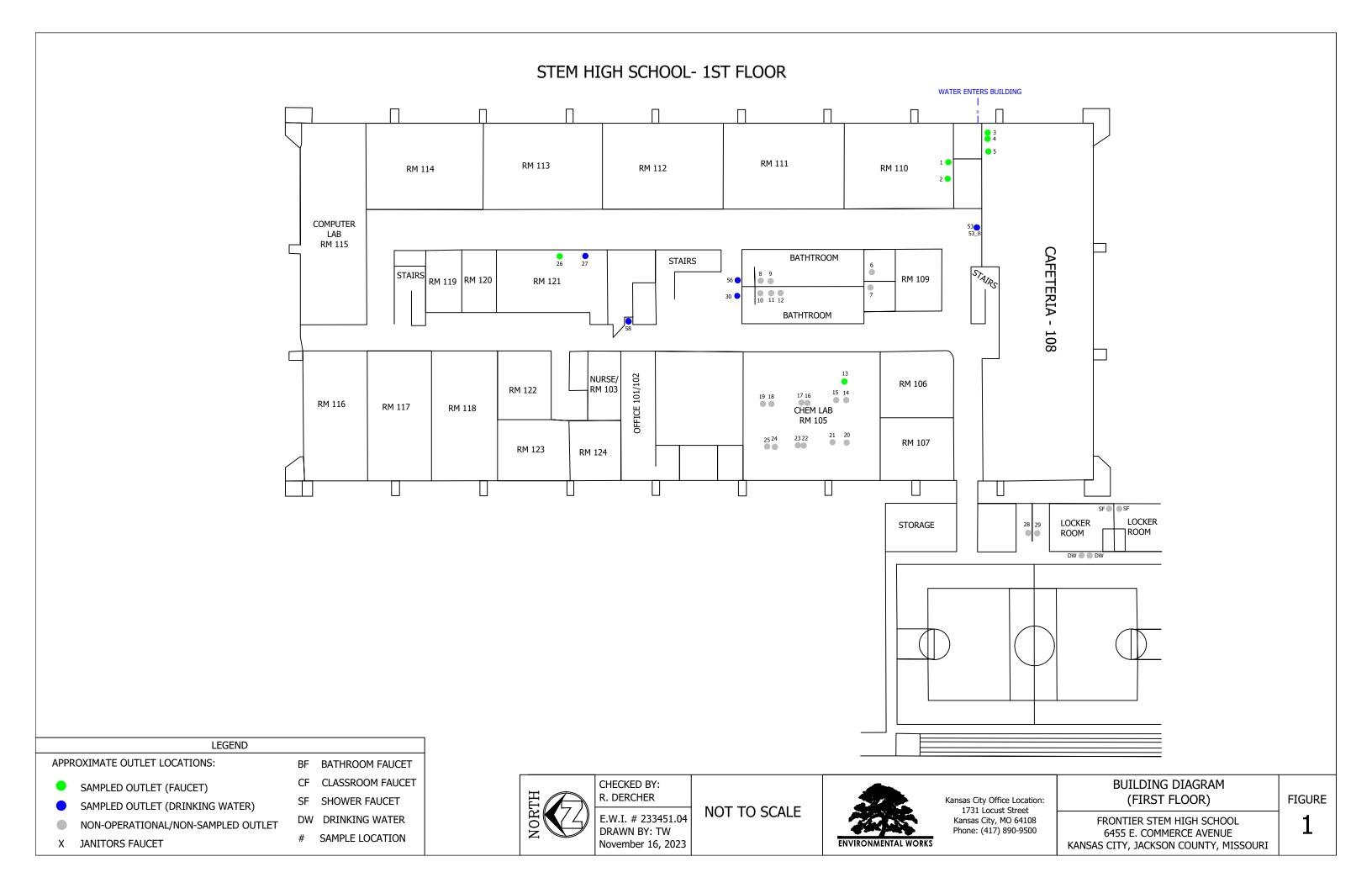
Attachment A – School Contact Information

Attachment B – Laboratory Analytical Report

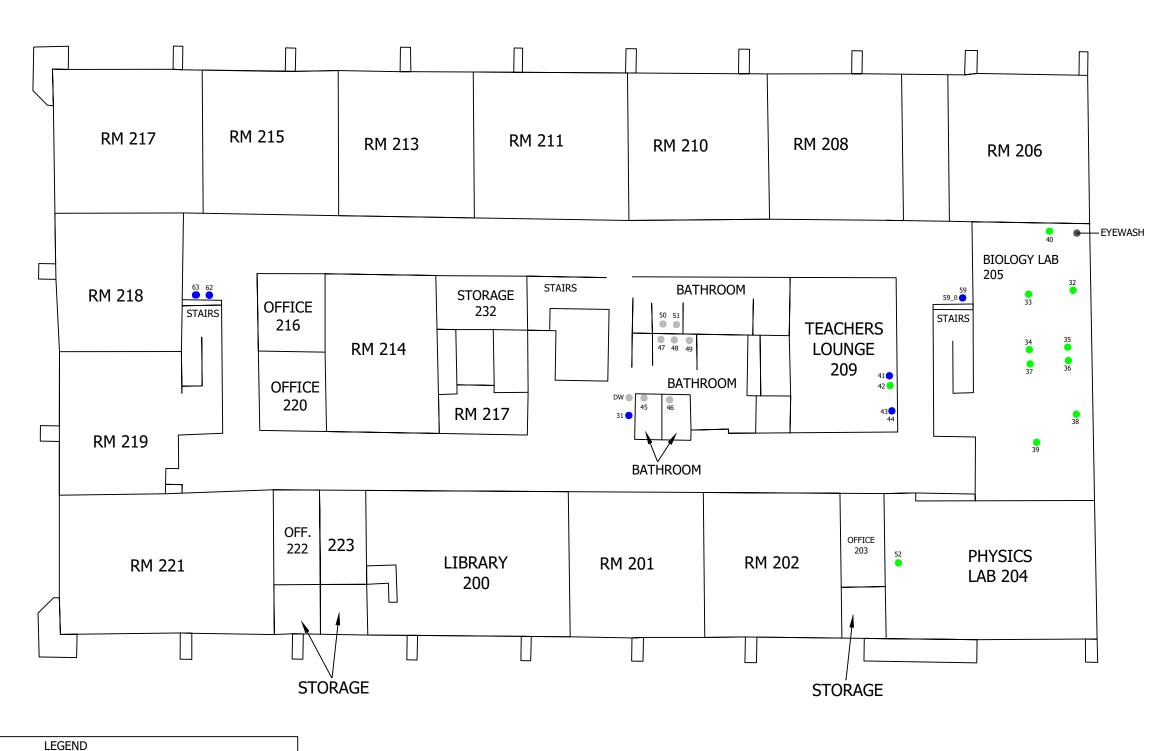
Attachment C – Photo Documentation

Environmental Works, Inc. Page 3 of 3

## **F**IGURES



### STEM HIGH SCHOOL- 2ND FLOOR



#### APPROXIMATE OUTLET LOCATIONS: BF BATHROOM FAUCET CF CLASSROOM FAUCET SAMPLED OUTLET (FAUCET)

- SAMPLED OUTLET (DRINKING WATER)
- NON-OPERATIONAL/NON-SAMPLED OUTLET
- DW DRINKING WATER # SAMPLE LOCATION X JANITORS FAUCET

SF SHOWER FAUCET



CHECKED BY: R. DERCHER

E.W.I. # 233451.04 DRAWN BY: TW November 16, 2023

NOT TO SCALE



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

### **BUILDING DIAGRAM** SECOND FLOOR

FRONTIER STEM HIGH SCHOOL 6455 E. COMMERCE AVENUE KANSAS CITY, JACKSON COUNTY, MISSOURI **FIGURE** 

# **T**ABLE

TABLE 1
Summary of Outlet Water Analytical Results
Frontier School District: STEM High School

	Program Sample ID					Lead Results	
Map ID	Format (Bldg-floor-Rm-Outlet-Type- Sample Number)	Outlet Type	Location (hall, room #, etc.)	Sample Type	Initial Sample Date	200.8 Method ug/L (ppb)	Notes
1	04-01-110-CF-P-1	Faucet 1, Classroom	Rm. 112, Science classroom	First Draw	9/15/2023	<1.0	
2	04-01-110-CF-P-2	Faucet 2, Classroom	Rm. 112, Science classroom	First Draw	9/15/2023	<1.0	
3	04-01-108-KF-P-3	Faucet 1, Cafeteria	Cafeteria kitchen	First Draw	9/15/2023	2.2	
4	04-01-108-KF-P-4	Faucet 2, Cafeteria	Cafeteria kitchen	First Draw	9/15/2023	<1.0	
5	04-01-108-HW-P-5	Faucet 3, Cafeteria	Cafeteria kitchen	First Draw	9/15/2023	<1.0	
13	04-01-105-CF-P-13	Faucet 1, Classroom	Rm. 105, Chemistry classroom	First Draw	9/15/2023	<1.0	
26	04-01-121-KF-P-26	Faucet	Rm. 122, kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
27	04-01-121-DW-P-27	Refrigerator Water	Rm. 122, kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
30	04-01-00G-SF-P-30	Shower, Locker room	Gym women's shower	First Draw	9/15/2023	<1.0	
31	04-01-00G-SF-P-31	Shower, Locker room	Gym men's shower	First Draw	9/15/2023	<1.0	
32	04-02-205-CF-P-32	Faucet 1, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	9.0	
33	04-02-205-CF-P-33	Faucet 2, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	4.4	
34	04-02-205-CF-P-34	Faucet 3, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	20.9	
35	04-02-205-CF-P-35	Faucet 4, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	18.9	Hand add a second
36	04-02-205-CF-P-36	Faucet 5, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	5.2	Handwashing, curriculum use only; Signage and engineering control to limit use.
37	04-02-205-CF-P-37	Faucet 6, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	6.8	engineering control to limit use.
38	04-02-205-CF-P-38	Faucet 7, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	13.5	
39	04-02-205-CF-P-39	Faucet 8, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	1.1	
40	04-02-205-CF-P-40	Faucet 9, Classroom	Rm. 205, Biology classroom	First Draw	9/15/2023	<1.0	
41	04-02-209-DW-P-41	Cup Filler	Rm. 209 kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
42	04-02-209-KF-P-42	Faucet	Rm. 209, kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
43	04-02-209-DW-P-43	Refrigerator Water	Rm. 209, kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
44	04-02-209-DW-P-44	Refrigerator Ice	Rm. 209, kitchen/teacher's lounge	First Draw	9/15/2023	<1.0	
52	04-02-204-CF-P-52	Faucet, Classroom	Rm. 204, Physics classroom (faucet/eyewash statio	First Draw	9/15/2023	1.2	

TABLE 1
Summary of Outlet Water Analytical Results
Frontier School District: STEM High School

	Program Sample ID					Lead Results	
Map ID	Format (Bldg-floor-Rm-Outlet-Type- Sample Number)	Outlet Type	Location (hall, room #, etc.)	Sample Type	Initial Sample Date	200.8 Method ug/L (ppb)	Notes
53	04-01-H110-DW-P-53	Bubbler Water Fountain	Hall near Rm. 110 and cafeteria	First Draw	9/17/2024	<1.0	
53_B	04-01-H110-DW-P-53_B	Bottle Filler	Hall near Rm. 110 and cafeteria	First Draw	9/17/2024	<1.0	
56	04-01-H-DW-P-56	Bubbler Water Fountain	1st Floor, Hall near center stairs and bathrooms	First Draw	9/17/2024	<1.0	
58	04-01-H101-DW-P-58	Bubbler Water Fountain	1st Floor, Hall near front office Rm. 101	First Draw	9/17/2024	1.06	DWOs put back in service for 2024-2025 school year
59	04-02-H205-DW-P-59	Bubbler Water Fountain	Hall near Rm. 205	First Draw	9/17/2024	<1.0	DWOS put back in service for 2024-2025 scribbl year
59_B	04-02-H205-DW-P-59_B	Bottle Filler	Hall near Rm. 205	First Draw	9/17/2024	<1.0	
62	04-02-H218-DW-P-62	Bubbler Water Fountain	2nd Floor, Hall near Rm. 218, S	First Draw	9/17/2024	<1.0	
63	04-02-H218-DW-P-63	Bubbler Water Fountain	2nd Floor, Hall near Rm. 218, N	First Draw	9/17/2024	<1.0	
32	Total Building Outlets						_

#### 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

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

Outlet Type	Location	Note			
Bathroom, Tap	1st Floor, Hall single, E (6), near Rm. 109				
Bathroom, Tap	1st Floor, Hall single, W (7), near Rm. 109				
Bathroom, Tap	1st Floor, Men's Hall RR, N (8)				
Bathroom, Tap	1st Floor, Men's Hall RR, S (9)	Handwash only. Signage provided to prevent			
Bathroom, Tap	1st Floor, Women's Hall RR, N (10)	drinking			
Bathroom, Tap	1st Floor, Women's Hall RR, C (11)				
Bathroom, Tap	1st Floor, Women's Hall RR, S (12)				

<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.

TABLE 1
Summary of Outlet Water Analytical Results
Frontier School District: STEM High School

	Program Sample ID		1			Lead Results	ts		
Map ID	Format (Bldg-floor-Rm-Outlet-Type- Sample Number)	Outlet Type	Location (hall, room #, etc.)	Sample Type	Initial Sample Date	200.8 Method ug/L (ppb)			
		Outlets where water was not coll	ected during sampling include the following (conti	inued):					
		Outlet Type	Location	Note					
		Chemistry Classroom, Tap	1st Floor, Rm. 105, SE lab desk, S faucet (14)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, SE lab desk, N faucet (15)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, E lab desk, S faucet (16)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, E lab desk, N faucet (17)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, NE lab desk, S faucet (18)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, NE lab desk, N faucet (19)	No water availab	No water available for use in connecting faucet				
		Chemistry Classroom, Tap	1st Floor, Rm. 105, SW lab desk, S faucet (20)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, SW lab desk, N faucet (21)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, W lab desk, S faucet (22)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, W lab desk, N faucet (23)						
		Chemistry Classroom, Tap	1st Floor, Rm. 105, NW lab desk, N faucet (25)						
		Water Fountain	1st Floor, Gym	Off-line, Signage	e provided to p	revent drinking	g		
		Water Fountain	1st Floor, Gym	and Bi	ubbler Taped C	losed			
		Bathroom, Tap	1st Floor, Gym single bathroom, N (28)	Handwash only	. Signage provid	ded to prevent	t		
		Bathroom, Tap	1st Floor, Gym single bathroom, S (29)		drinking				
		Shower	1st Floor, Gym, Locker room shower, N		sh only. Limited ed to prevent di				
		Shower	1st Floor, Gym, Locker room shower, S	provide	ca to prevent di	111111111111111111111111111111111111111			
				Off-line, No water	r connected. Sig	gnage provided	d		
		Water Fountain	2nd Floor, Hallway near center stairs	to prevent drinkin	ng				
		Biology Classroom, Eyewash	2nd Floor, Rm. 205, SE corner of classroom						
		Bathroom, Tap	2nd Floor, Hall single, N (45), near Rm. 201						
		Bathroom, Tap	2nd Floor, Hall single, S (46), near Rm. 201	Handwash only	. Signage provid	ded to prevent	t		
		Bathroom, Tap	2nd Floor, Women's Hall RR, N (47)		drinking				
		Bathroom, Tap	2nd Floor, Women's Hall RR, C (48)						

2nd Floor, Women's Hall RR, S (49)

Bathroom, Tap

# ATTACHMENT A School Contact Information

## **School District and Contact Information**

**School Name:** Frontier STEM High School

**School District:** Frontier School District

Building ID: 04

School Type: Charter

**School Address:** 6455 E Commerce 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 STEM High School	Secondary	9th – 12th	6455 E Commerce Avenue Kansas City, MO 64120

# ATTACHMENT B Laboratory Analytical Report



October 16, 2023

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

RE: Frontier STEM HS-233451.04

Dear Rachel L. Dercher, RG:

Please find enclosed the analytical results for the **24** sample(s) the laboratory received on **9/19/23 10:50 am** and logged in under work order **GI03595**. 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



#### **SAMPLE RECEIPT CHECK LIST**

#### Items not applicable will be marked as in compliance

GI03595

Work Order

Work Order Glosses
Samples received within temperature compliance when applicable
COC present upon sample receipt
COC completed & legible
Sampler name & signature present
Unique sample IDs assigned
Sample collection location recorded
Date & time collected recorded on COC
Relinquished by client signature on COC
COC & labels match
Sample labels are legible
Appropriate bottle(s) received
Sufficient sample volume received
Sample containers received undamaged
Zero headspace, <6 mm present in VOA vials
Trip blank(s) received
All non-field analyses received within holding times
Short hold time analysis
Current PDC COC submitted
Case narrative provided

Customer #: 72-101013 www.pacelabs.com



#### **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.

Customer #: 72-101013



#### **ANALYTICAL RESULTS**

Sample: Name:							Sampled: Received:		
Reg ID:						ı	PO #:		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method



#### **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

TNI TNI



September 27, 2023

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

RE: Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Dear Chenise Lambert-Sykes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 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

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

Sincerely,

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

Badles Smith

Project Manager Enclosures





#### **CERTIFICATIONS**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

**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



#### **SAMPLE ANALYTE COUNT**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35829612001	04-01-108-HW-P-5	EPA 200.8	BSL	1	PASI-O
35829612002	04-01-108-KF-P-3	EPA 200.8	BSL	1	PASI-O
35829612003	04-01-108-KF-P-4	EPA 200.8	BSL	1	PASI-O
35829612004	04-01-110-CF-P-1	EPA 200.8	BSL	1	PASI-O
35829612005	04-01-110-CF-P-2	EPA 200.8	BSL	1	PASI-O
35829612006	04-01-121-DW-P-27	EPA 200.8	BSL	1	PASI-O
35829612007	04-01-121-KF-P-26	EPA 200.8	BSL	1	PASI-O
35829612008	04-01-00G-SF-P-31	EPA 200.8	BSL	1	PASI-O
35829612009	04-01-105-CF-P-13	EPA 200.8	BSL	1	PASI-O
35829612010	04-02-205-CF-P-36	EPA 200.8	BSL	1	PASI-O
35829612011	04-02-205-CF-P-37	EPA 200.8	BSL	1	PASI-O
35829612012	04-02-205-CF-P-38	EPA 200.8	BSL	1	PASI-O
35829612013	04-02-205-CF-P-39	EPA 200.8	BSL	1	PASI-O
35829612014	04-02-205-CF-P-40	EPA 200.8	BSL	1	PASI-O
35829612015	04-02-209-DW-P-41	EPA 200.8	BSL	1	PASI-O
35829612016	04-02-209-DW-P-43	EPA 200.8	BSL	1	PASI-O
35829612017	04-02-209-DW-P-44	EPA 200.8	BSL	1	PASI-O
35829612018	04-02-209-KF-P-42	EPA 200.8	BSL	1	PASI-O
35829612019	04-02-204-CF-P-52	EPA 200.8	BSL	1	PASI-O
35829612020	04-02-205-CF-P-32	EPA 200.8	BSL	1	PASI-O
35829612021	04-02-205-CF-P-33	EPA 200.8	BSL	1	PASI-O
35829612022	04-02-205-CF-P-34	EPA 200.8	BSL	1	PASI-O
35829612023	04-02-205-CF-P-35	EPA 200.8	BSL	1	PASI-O
35829612024	04-01-00G-SF-P-30	EPA 200.8	BSL	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-108-HW-P-5	Lab ID: 358	29612001	Collected: 09/15/2	23 06:13	Received: 09	9/19/23 10:50	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										
	Pace Analytic	al Services -	Ormond Beach							



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-108-KF-P-3 Lab ID: 35829612002 Collected: 09/15/23 06:13 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach 2.2 1.0 Lead ug/L 1 09/25/23 22:10 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-108-KF-P-4 Lab ID: 35829612003 Collected: 09/15/23 06:13 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:11 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-110-CF-P-1 Lab ID: 35829612004 Collected: 09/15/23 06:09 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:13 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-110-CF-P-2 Lab ID: 35829612005 Collected: 09/15/23 06:09 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:14 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-121-DW-P-27 Lab ID: 35829612006 Collected: 09/15/23 06:36 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:16 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-121-KF-P-26 Lab ID: 35829612007 Collected: 09/15/23 06:36 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:17 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-00G-SF-P-31	Lab ID: 358	329612008	Collected: 09/15/2	23 06:50	Received: 0	9/19/23 10:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me	hod: EPA 200	0.8					
	Pace Analytic	al Services - 0	Ormond Beach					



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-105-CF-P-13	Lab ID: 35	829612009	Collected: 09/13/2	23 06:29	Received: 09	9/19/23 10:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me	ethod: EPA 20	00.8					
	Pace Analyti	cal Services	- Ormond Beach					
Lead	ND	ug/L	1.0	1		09/25/23 22:2	0 7439-92-1	



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-36	Lab ID: 35	829612010	Collected: 09/13/2	23 07:08	Received: 0	9/19/23 10:50	Matrix: Drinking	Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical Me	Analytical Method: EPA 200.8								
	Pace Analyti	cal Services -	Ormond Beach							
Lead	5.2	ug/L	1.0	1		09/25/23 22:2:	2 7439-92-1			



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-37 Lab ID: 35829612011 Collected: 09/13/23 07:10 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach 1.0 Lead 6.8 ug/L 1 09/25/23 22:26 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-38	Lab ID: 35829612012		Collected: 09/13/23 07:09		Received: 09/19/23 10:50		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	13.5	ug/L	1.0	1		09/25/23 22:28	3 7439-92-1	



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-39	Lab ID: 35829612013		Collected: 09/13/23 07:09		Received: 09/19/23 10:50		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	1.1	ug/L	1.0	1		09/25/23 22:29	7439-92-1	



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-40 Lab ID: 35829612014 Collected: 09/13/23 07:07 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:30 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-209-DW-P-41	Lab ID: 35829612015		Collected: 09/13/23 06:59		Received: 09/19/23 10:50		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							
200.8 MET ICPMS Drinking Water	Analytical Met	noa: EPA 200	0.8					
200.8 MET ICPMS Drinking Water	•		Ormond Beach					



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-209-DW-P-43 Lab ID: 35829612016 Collected: 09/13/23 07:01 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:33 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-209-DW-P-44 Lab ID: 35829612017 Collected: 09/13/23 07:01 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach ND 1.0 Lead ug/L 1 09/25/23 22:35 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-209-KF-P-42	Lab ID: 358	29612018	Collected: 09/13/2	23 07:00	Received: 09	9/19/23 10:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met	hod: EPA 20	0.8					
200.0 WILT TOT WIS DITTIKING WATER	·							
200.0 MET ICI MO DITIKING Water	Pace Analytical Services - Ormond Beach							



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-204-CF-P-52	Lab ID: 358	329612019	Collected: 09/15/2	23 07:04	Received: 09	9/19/23 10:50 I	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me		0.8 Ormond Beach					
Lead	1.2	ug/L	1.0	1		09/25/23 22:38	7439-92-1	



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-32 Lab ID: 35829612020 Collected: 09/15/23 07:07 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach 9.0 1.0 Lead ug/L 1 09/25/23 22:39 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-33 Lab ID: 35829612021 Collected: 09/15/23 07:11 Received: 09/19/23 10:50 Matrix: Drinking Water DF **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual 200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach 4.4 1.0 Lead ug/L 1 09/25/23 23:07 7439-92-1



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-34	Lab ID: 358	329612022	Collected: 09/15/2	23 07:10	Received: 09	9/19/23 10:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
		<b></b>						
200.8 MET ICPMS Drinking Water	Analytical Met	hod: EPA 20	0.8					
200.8 MET ICPMS Drinking Water	•		00.8 Ormond Beach					

09/25/23 23:03 09/27/23 12:43 7439-92-1



Lead

## **ANALYTICAL RESULTS**

Project: GI03595 Frontier STEM HS 23345

18.9

ug/L

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-02-205-CF-P-35 Lab ID: 35829612023 Collected: 09/15/23 07:08 Received: 09/19/23 10:50 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 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach

1.0



Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Sample: 04-01-00G-SF-P-30	Lab ID: 358	29612024	Collected: 09/15/2	23 06:22	Received: 09	9/19/23 10:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met	hod: EPA 20	8.00					
200.8 MET ICPMS Drinking Water	•		00.8 Ormond Beach					



#### **QUALITY CONTROL DATA**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

QC Batch: 952646 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: 35829612001, 35829612002, 35829612003, 35829612004, 35829612005, 35829612006, 35829612007,

35829612008, 35829612009, 35829612010, 35829612011, 35829612012, 35829612013, 35829612014,

35829612015, 35829612016, 35829612017, 35829612018, 35829612019, 35829612020

METHOD BLANK: 5237572 Matrix: Water

Associated Lab Samples: 35829612001, 35829612002, 35829612003, 35829612004, 35829612005, 35829612006, 35829612007,

35829612008, 35829612009, 35829612010, 35829612011, 35829612012, 35829612013, 35829612014,

35829612015, 35829612016, 35829612017, 35829612018, 35829612019, 35829612020

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Lead
 ug/L
 ND
 1.0
 09/25/23 22:47

LABORATORY CONTROL SAMPLE: 5237573

Date: 09/27/2023 06:19 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Lead ug/L 50 49.2 98 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5237568 5237569

MSD MS 35829612001 Spike Spike MS MSD MS MSD % Rec Parameter Units Conc. Result % Rec % Rec Limits **RPD** Result Conc. Result

Lead ug/L ND 50 50 54.5 53.1 108 105 70-130 3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5237570 5237571

MS MSD MS 35829612020 Spike Spike MSD MS MSD % Rec **RPD** Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual ug/L 9.0 50 50 61.0 62.7 104 107 70-130 3 Lead

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

Qual



#### **QUALITY CONTROL DATA**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

QC Batch: 952671 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: 35829612021, 35829612022, 35829612024

METHOD BLANK: 5237650 Matrix: Water

Associated Lab Samples: 35829612021, 35829612022, 35829612024

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Lead ug/L ND 1.0 09/25/23 23:28

LABORATORY CONTROL SAMPLE: 5237651

Spike LCS LCS % Rec

 Parameter
 Units
 Conc.
 Result
 % Rec
 Limits
 Qualifiers

 Lead
 ug/L
 50
 49.1
 98
 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5237646 5237647

MS MSD

35829340001 Spike Spike MS MSD MS MSD % Rec Parameter Units % Rec **RPD** Result Conc. Conc. Result Result % Rec Limits Qual 0.49 I Lead ug/L 50 50 49.4 50.7 98 100 70-130 3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5237648 5237649

MS MSD 35829627009 MS MS Spike Spike MSD MSD % Rec **RPD** Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits

Lead ug/L 0.22 U 50 50 51.7 51.7 103 103 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**

Qual



#### **QUALITY CONTROL DATA**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

QC Batch: 952714 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: 35829612023

METHOD BLANK: 5237936 Matrix: Water

Associated Lab Samples: 35829612023

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Lead ug/L ND 1.0 09/27/23 12:37

LABORATORY CONTROL SAMPLE: 5237937

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Lead ug/L 50 49.1 98 85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5237938 5237939

MSD MS 35829400001 Spike Spike MS MSD MS MSD % Rec Parameter Units Conc. % Rec Limits **RPD** Qual Result Conc. Result Result % Rec

Lead ug/L 0.00060 50 50 50.9 50.0 101 99 70-130 2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

#### **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**

Date: 09/27/2023 06:19 PM

- 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.



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GI03595 Frontier STEM HS 23345

Pace Project No.: 35829612

Date: 09/27/2023 06:19 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35829612023	04-02-205-CF-P-35	EPA 200.8	952714	EPA 200.8	952742
35829612001	04-01-108-HW-P-5	EPA 200.8	952646		
35829612002	04-01-108-KF-P-3	EPA 200.8	952646		
35829612003	04-01-108-KF-P-4	EPA 200.8	952646		
35829612004	04-01-110-CF-P-1	EPA 200.8	952646		
35829612005	04-01-110-CF-P-2	EPA 200.8	952646		
35829612006	04-01-121-DW-P-27	EPA 200.8	952646		
35829612007	04-01-121-KF-P-26	EPA 200.8	952646		
35829612008	04-01-00G-SF-P-31	EPA 200.8	952646		
35829612009	04-01-105-CF-P-13	EPA 200.8	952646		
35829612010	04-02-205-CF-P-36	EPA 200.8	952646		
35829612011	04-02-205-CF-P-37	EPA 200.8	952646		
35829612012	04-02-205-CF-P-38	EPA 200.8	952646		
35829612013	04-02-205-CF-P-39	EPA 200.8	952646		
35829612014	04-02-205-CF-P-40	EPA 200.8	952646		
35829612015	04-02-209-DW-P-41	EPA 200.8	952646		
35829612016	04-02-209-DW-P-43	EPA 200.8	952646		
35829612017	04-02-209-DW-P-44	EPA 200.8	952646		
35829612018	04-02-209-KF-P-42	EPA 200.8	952646		
35829612019	04-02-204-CF-P-52	EPA 200.8	952646		
35829612020	04-02-205-CF-P-32	EPA 200.8	952646		
35829612021	04-02-205-CF-P-33	EPA 200.8	952671		
35829612022	04-02-205-CF-P-34	EPA 200.8	952671		
35829612024	04-01-00G-SF-P-30	EPA 200.8	952671		

# **REPORT OF LABORATORY ANALYSIS**

JO# 35829612

Internal Transfer Chain of Custody

Face Analytical

9/19/2023

**Results Requested** 

9/29/2023

**Owner Received** 

233451.04-Drinking Frontier STEM HS

> Subcontract To: Workorder Name:

> > Chenise Lambert-Sykes

Workorder: G103595

Report To:

Hazelwood, MO 63042

944 Anglum Road

Pace Hazelwood

Phone 800.333.3278

Date:

Requested Analysis

Pace Analytical Ormand Beach

8 East Tower Circle

**Preserved Containers** 

Turb Check

DW Lead (Pb)

Crmond Beach, FL 32174

386-672-5668

GI03595-02 GI03595-01 Lab ID 0613 0613 Collect Date/Time

9/15/2023

Grab Grab

04-01-108-HW-P-5

Item Sample ID

04-01-108-KF-P-3 04-01-108-KF-P-4 04-01-110-CF-P-1 04-01-110-CF-P-2

Sample Type

9/15/2023 9/15/2023 9/15/2023

Grab

Grab Grab Grab

04-01-121-DW-P-27

LAB USE ONLY

Matrix M <u>></u> ≥ M MO M

GI03595-03 GI03595-05 GI03595-06 GI03595-04 GI03595-07 GI03595 08 0613 6090

N ∄ Δ

6090 9890 9890 9654 9654 0650 9/15/2023 9/15/2023 9/15/2023 9/15/2023 9/15/2023 9/15/2023

Grab Grab Grab Grab 04 02 00H BF P 45 04 02 00H BF P 46 04-01-121-KF-P-26

10

04-01-00G-SF-P-31 Transfers | Released By

**Cooler Temperature on Receipt** 

ပူ

Custody Seal Y or N

LOG CLIENT SAMP. ID; Proj. Frontier STEM HS 233451.04

Sample Intact Y or N

Received on Ice Y or N

10 DAY TAT, Report to 1PPB, STD EXCEL EDD

911912 10 5 SAMPLES UNPRESERVED AT COLLECTION

Date/Time

Reveived By

Date/Time

6103595 09 GI03595-10

\*

\*\*\*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.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Page 33 of 43 Page 38 of 52

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					State of Origin: MO Cert. Needed:	: MO × NO		Face Analytical
Workorder: Gl03595		Workorder Name:	er Name:	Frontier STEM HS 233451.04-Drinking	Owner Received Date:	ed 9/14/2023	Results Requested	£ 20/2/2023
Report To:		Subco	Subcontract To:			Rec	Redupeted Analysis	7/21/2023
Chenise Lambert-Sykes							The state of the s	
Pace Hazelwood		Pace A	Analytical Or	Pace Analytical Ormand Beach				
944 Anglum Road		8 East	8 East Tower Circle	a				
Hazelwood, IMO 63042 Phone 800.333.3278		Ormol 386-6	Ormond Beach, FL 32174 386-672-5668	.32174		(1		
					Preserved Containers	9d)		
Item Sample ID	Cample Line	i.i.		9		bead W		
I	Sallipie I ype	רחוברו חקוב/ ו	alle	Labiu	Matrix			LAB USE ONLY
T	Grab	9/13/2023	0620	GI03595-11	₩6	*		
	Grab	9/13/2023	0620	6103595 12	#4	*		
	Grab	9/13/2023	0620	GI03595 13	*44	_		
	<del>Grab</del>	9/13/2023	0615	GI03595 14	₩d	*		
T	<del>Grab</del>	9/13/2023	0618	GI03595 15	₩d	*		
T	Grab	9/13/2023	6623	GI03595 16	₩d	*		
	Grab	9/13/2023	0623	GI03595 17	₩d	*		
8 04-01-105-CF-P-13	Grab	9/13/2023	0629	GI03595-18	DW			
	Grab	9/13/2023	0708	GI03595-19	DW	×		
10   04-02-205-CF-P-37	Grab	9/13/2023	0710	GI03595-20	DW			
Transfers Released By			Date/Time	Reveived By	By,	Date/Time	Comments	
· ·					Mrd/SH	45. DSIP/ 57/181/6	1912 1015 ** SAMPLES UNPRESERVED AT COLLECTION	T COLLECTION
7						10 D	10 DAY TAT, Report to 1PPB, STD EXCEL EDD	STD EXCEL EDD
3						106 CLII	LOG CLIENT SAMP. ID; Proj. Frontier STEM HS 233451.04	r STEM HS 233451.04

Sample Intack 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. Received on Ice Y or/N This chain of custody is considered complete as is since this information is available in the owner laboratory.

Custody Seal Nor N

Cooler Temperature on Receipt

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					State of Origin: MO Cert. Needed:	in: MO I: TYES X NO		Pace Analytical
Workorder: Gl03595		Workorder Name:	r Name:	Frontier STEM HS 233451.04-Drinking	Owner Received B Date:	ved 9/14/2023	Results Requested	5505/25/0
Report To:		Subco	Subcontract To:			S) 111 2023	Remiected Analysis	9/21/2023
Chenise Lambert-Sykes							duested Alianysis	
Pace Hazelwood		Pace A	Analytical Or	Pace Analytical Ormand Beach				
944 Anglum Road		8 East	8 East Tower Circle					
Hazelwood, MO 63042 Phone 800.333.3278		Ormor	Ormond Beach, FL 32174 386-672-5668	. 32174				
					Preserved	Preserved Containers		
						Lead b Chec		
Item Sample ID	Sample Type	Collect Date/Time	ime	Lab ID	Matrix	<b>W</b> O		I AB LISE ONLY
1 04-02-205-CF-P-38	Grab	9/13/2023	0709	GI03595-21	MQ	×		
	Grab	9/13/2023	0709	GI03595-22	DW			
3 04-02-205-CF-P-40	Grab	9/13/2023	0707	GI03595-23	DW			
П	Grab	9/13/2023	0659	GI03595-24	DW			
	Grab	9/13/2023	0701	GI03595-25	DW	×		
6 04-02-209-DW-P-44	Grab	9/13/2023	0701	GI03595-26	DW	×		
7 04-02-209-KF-P-42	Grab	9/13/2023	0020	GI03595-27	DW	×		
	Grab	9/13/2023	0652	<del>GI03595-28</del>	*4			
- 1	Grab	9/13/2023	9652	6103595-29	*40			
10 04 02 00H BF P 49	<del>Grab</del>	9/13/2023	<del>6657</del>	GI03595 30	*44			
Transfers Released By				Received By	d By	Date/Time	Comments	
1					12 mal st	4/19/11/15/14	** *SAMPLES UNPRESERVED AT COLLECTION	COLLECTION
2 2						}	10 DAY TAT, Report to 1PPB, STD EXCEL EDD	STD EXCEL EDD
8						T090T	LOG CLIENT SAMP, ID: Proj. Frontier STFM HS 233451 04	STEM HS 233451 04
								TOTOL STORY

\*\*\*\*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. Received on Ice Y pr N This chain of custody is considered complete as is since this information is available in the owner laboratory. Custody Seal / or N Cooler Temperature on Receipt

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						State of Origin: MO Cert. Needed:	ē Ē	YES X NO		Pace Analytical	
Workorde	Workorder: Gl03595		Workorder Name:	r Name:	Frontier STEM HS 233451.04-Drinking	Owner Received		9/14/2023	Results Requested	ניסר/דר/ס גרסר/דר/ס	
Report To:	.0:		Subco	Subcontract To:			1/6	Pog.	by.	9/2//2023	
Chenise	Chenise Lambert-Sykes							וובאנ	nequested Alialysis		100
Pace Hazelwood	zelwood		Pace A	Pace Analytical Ormand Beach	mand Beach						
944 Ang	944 Anglum Road		8 East	8 East Tower Circle	<b>.</b>						
Hazelwo	Hazelwood, MO 63042		Ormo	Ormond Beach, FL 32174	32174						
Phone 8	Phone 800.333.3278		386-6	386-672-5668				(0			
						Preserved	Preserved Containers				
								резд Сре			
Item Sample ID	nple ID	Sample Type	Collect Date/Time	ime	Lab ID	Matrix				I AB LISE ONLY	>
4	04 02 00H BF P-50	Grab	9/15/2023	9651	G103595-31	₩d				CAD COL ONE	
48	04 02 00H BF P 51	Grab	9/15/2023	<del>0651</del>	6103595-32	₩d					Т
3 04-	04-02-204-CF-P-52	Grab	9/15/2023	0704	GI03595-33	DW					
	04-02-205-CF-P-32	Grab	9/15/2023	0707	GI03595-34	DW					1
П	04-02-205-CF-P-33	Grab	9/15/2023	0711	GI03595-35	DW		×			1
94-	04-02-205-CF-P-34	Grab	9/15/2023	0710	GI03595-36	DW	Î	×			T
П	04-02-205-CF-P-35	Grab	9/15/2023	0708	GI03595-37	DW	Î	×			T
$\Box$	<del>04 01 00G BF P 28</del>	Grab	9/15/2023	0642	8E 565E0ID	DW	_	*			1
$\neg$	04 01 00G BF P 29	Grab	9/15/2023	0641	<del>66-363-39</del>	DW	_	*			T
10 04-	04-01-00G-SF-P-30	Grab	9/15/2023	0622	GI03595-40	DW					T
Transfer	Transfers Released By			Date/Time	Reveived By	By	Date/Time		Comments	S	-
<del>,</del> ⊢					V	S Ball	91-AN3		SSAMPLES UNPRESERVED AT COLLECTION	AT COLLECTION	
7 (									10 DAY TAT, Report to 1PPB, STD EXCEL EDD	, STD EXCEL EDD	
Υ								LOG CLIEN	LOG CLIENT SAMP. ID; Proj. Frontier STEM HS 233451.04	er STEM HS 233451.0	4
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Sample Intage 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. Received on Ice Y or N This chain of custody is considered complete as is since this information is available in the owner laboratory. Custody Seal Y or N Cooler Temperature on Receipt

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FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

# INTER\_LABORATORY WORK ORDER #

(To be complete by sending lab)

8/59/5053	REQUESTED COMPLETION DATE:
	Date Prepared:
	Check Box for Consolidated Invoice:
	:oN Project No:
GI03295	Sending Project No:
Inn. Comments In accordant	

: ot qid2

Pace Analytical Ormond B. 8 East Tower Circle Ormond Beach, FL 32174



\* Custom Revenue Allocation

8992.279.988

STD Report	AC Deliverable	OM	Otate of Sample Origin
Environmental Works, Inc.	External Client	IR#35 Pace Ormand E	Receiving Region
Chenise Lambert-Sykes	Sending Project Mgr.	PA-72 Hazelwood	noigaЯ gnibna2

All questions should be addressed to sending project manager.

02.7	.9\$	08.892\$		00.355\$		
vices Dept.		<b>Kevenue</b> %08) Roigay Bu		OUB INOTI EIBJOT	anos grasia	Receiving Region Department
				STEM HS 233	Project = Frontier Acctg. Code	special Requirements:
					MAZ ,TAT ysd Of	
00.35£\$	JATOT					
00.0\$	00.0\$	74	anoM	77	220 ml UP	Turb Check
00.8££\$	00.41\$	74	None	77	4U lm 02S	DW Lead
JunomA	Unit Price	Quantity of salphes	Preservative	Quantity of containers	Container Type	Method Description
			EQUESTED	MOBK B		
oN	Cert Needed:	J9W	or Dry Weight?	Report Wet o	qdd	Requested Reportable Units

GEE WORK COMPLETED	VVQI.	ZINOS	
ON.	_ v	7 sa [	Jun San Supras or sadures maran
ON		Yes	Return Samples to Sending Region:
NORK COMPLETED THIS SECTION ALSO	A TH	JULI TARMA A	O1 STEELS FOR THE SECOND STEELS

JATOT

-	Receiving Project Manager:	Date Completed:
	CONFIRMATION OF WORK COMPLETED	

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 corporate as needed.

02.70\$

08.892\$

Terracore, (9) Other Thres: (1) None, (2) HNO3, (3) HSO4, (4) HCJ, (5) NaOH, (6) Zn Acetate, (7) NaOH, (6) Sod. Thosulfate, (9) Accorbic Acid, (10) MeOH, (11) Other not beitifnebi eonsmironnoo-non noitsviesen elqmsz \*\*Container Size: (1) 11, (2) 500ml, (3) 250ml, (4) 125ml, (5) 100ml, (6) 40ml vial, (7) EnCore, (8) Corrected Temp, ("C) ENV-FRM-CORQ-0019 v01 082123 @ [ ] FedEx [ ] UPS [ ] Other Delivered by: [ ] In- Person [ ] Courier Sample Comment Chenise Lambert-Sykes Preiog / Bottle Ord, 1D: ō AcctNum / Client ID: Hazelwood event Profile / Template: Obs. Temp. (°C) Proj. Mgr: 1143137 LAB USE ONLY- Affix Workorder/Login Label Here Page: 5 Lab Use Only Correction Factor (°C): Scan QR Code for instructions dentify Container Preservative Type\*\* Additional Instructions from Pace®: Specify Container Size \*\* Thermometer ID: Analysis Requested mitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/ Date/Time: ×  $\times$  $\times$  $\times$ ×  $\times$ × ×  $\times$ 200 8 Lead Number & Type of Containers Plastic Glass \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Soild (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk Field Filtered (if applicable): [ ] Yes [ 🔰 No CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields Res. Get the Lead Out Time Kele leceived by/Company: (Signature) Composite End rdercher@environmentalworks.com Frantier Schals Collected By: Printed Name: Date Missouri Analysis: Signature: Dercher, Rachel (816)285-8426 4/15/23-6:0 CH90 2230 1490 County / State origin of sample(s): Time Regulatory Program (DW, RCRA, etc.) ≥s applicable (or Composite Start) Rush (Pre-approval required): 9/29/2023 [ ]2 Day [ ]3 day [ ]5 day [ Other Collected Purchase Order # "if applicable): 56/15/23 Contact/Report To: woice E-Mail: voice To: Cc E-Mail: hone #: Quote #: -Mail: Matrix \* Grab O Date Results Requested: ΔV ΔV Ν M MΩ M M Μ ΔV M 1731 LOCUST ST, Kansas City, MO 64108 ) CT Customer Remarks / Special Conditions / Possible Hazards: Pace® Location Requested (City/State) 9608 Loiret Blvd., Lenexa, KS 66219 233451.04 Frontier STEM HS See page luished by/Company; (Signature) ΙM **ENVIRONMENTAL WORKS** Customer Sample ID Pace Analytical Kansas Site Collection Info/Facility ID (as applicable): [ ] PT [ ] Level III thed by/Company: (Signature) thed by/Company; (Signature) uished by/Company: (Signature) ime Zone Collected: [ ] AK 04-01-00G-BF-P-28 04-01-00G-BF-P-29 04-01-00G-SF-P-30 расе Customer Project #: **Jata Deliverables** Street Address: V J Level II roject Name: [ ] EQUIS [ ] Other Page 43 of 52

Pace Analytical Kansas		j	N OF S	YOUTU						LAB	ISE ONLY- Affix W	LAB USE ONLY- Affix Workorder/Login Label Here	a	Γ
9608 Loiret Blvd., Lenexa, KS 66219		5	Chain-af-c	USTODY stody is a LEGA	CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields	Reques mplete all rele	t Docume	int					Ų.	
ENVIRONMENTAL WORKS		Contac		Dercher, Rachel	hel									
1731 LOCUST ST, Kansas City, MO 64108		Phone a:	4	(816)285-8426	56									-
		E-Mail: Cc E-Mail:	ie ;;	rdercher@ei	rdercher@environmentalworks,com	ks,com				SS	Scan QR Code for instructions	instructions		-
Customer Project #:		Invoice To:	.Го:	Frantie	ie Sh	Slow								_
233451.04 Frontier STEM HS		Invoice	Invoice E-Mail:		}					Specify Container Size	- Size **	**Containe	**Container Size: (1) 11, (2) 500mL (3) 250mL, (4)	=
Site Collection Info/Facility ID (as applicable):		Purcha	Purchase Order # 116									125mi. (5) TerraCore,	100ml, (6) 40ml vial, (7) EnCore, (8) (9) Other	
		applicable):	ble):							Identify Container Preservative Type*	vative Type***	*** Preserv H2SO4, (4)	*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCI, (5) NaOH, (6) Zn Acetate. (7)	
		Quote #:	ž							Analysis Requested	sted	NaHSO4, (B) Sod 7	) Sod. Thiosulfate, (9) Ascorbic Acid, (	10)
d: [ ]AK	[ ]ET	County	County / State origin of sample(s):	f sample(s):	Missouri							Proj. Mgr.	2	
	Regulatory Pro	gram (DW, F	Regulatory Program (DW, RCRA, etc.) 2s applicable:	1	6st the 1	Lead O.	4					Cheni	Chenise Lambert-Sykes ActNum / Client ID:	
[ ] Level III [ ] Level IV	~	ush (Pre-ap	Rush (Pre-approval recuired):		W PWSID #	ww Permit #	as applicable:							
	[ ]2 Day [	] 3 day [ ]	[ ]2 Day [ ]3 day [ ]5 day [ ]Other_	, le				•				ose Or		
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* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Soild (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk	d Water (GW),	Waste Wate	r (WW), Produ	t (P), Soil/Solid	(SS), OII (OL), Wip	e (WP), Tissue	(TS), Bioassay (F	3), Vapor (V),	ÞE			Hazel	Hazelwood event Prelog / Bottle Ord. ID:	
Customer Sample ID	Matrix * Comp / Grab	/ du	Collected (or Composite Start)	Start)	Composite End	ite End	Res. Num	Number & Type of Containers	9 0 8 Te			1143137	Sample Comment	
04-02-00H-BF-P-47	<b>⊘</b>		9/15/23	C\$90	Date	E		tic Glass						
04-02-00H-BF-P-48	DW			2530	_	-			×					
04-02-00H-BF-P-49	DW			7590					×					
04-02-00H-BF-P-50	DW			(990					×					_
04-02-00H-BF-P-51	DW			1590					×					Т
04-02-204-CF-P-52	MO			4070					×					_
04-02-205-CF-P-32	DW			To70					×					1
04-02-205-CF-P-33	MQ			1170					×					1
04-02-205-CF-P-34	DW			0770					×					7
04-02-205-CF-P-35	DW		-1	8070	-	7	7		×					T
_					Collected By:	2.L.	Mak	,		Additional Instructions from Pace®:	m Pace®:			_
see lage					Signature:			100		# Coolers: Thermometer ID:		Correction Factor (°C): Obs.	Temp. (*C) Corrected Temp. (*C)	Ω.
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Action .					madura da paga	(administration)				Date/Time:		Page:	7	

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1,51 LOCOSI 31, Nalisas City, MIO 64108	15 CITY, IVIO 64.108	Phone #:	iii	(816)285-8426	ıo						
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# t		Invoice To:		Fraction Sc	Look			T			
Project Name: 233451.04 Frontier STEM HS	MHS	Invoice	invoice E-Mail:						Specify Container Size **		**Container Size; [1] 11, (2) 500mL, (3) 250mL
		- 1									125ml, (5) 100ml, (6) 40ml vial, (7) EnCore, (8)
Site Collection Info/Facility ID (as applicable):		Purcha	Purchase Order # (Ff						Identify Container Preservative Type		••• Preservative Typer (1) None (2) UNIO (2)
		applica	able):							Ī	Preservative Types: (1) None, (2) HNO3, (3) H2504, (4) HCl, (5) NaOH, (6) Zn Acetate, (7)
		Quote #	#						Analysis Requested	Ť	NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10)
Time Zone Collected: ( ) AK   1 PT	191 1 151 1 1M1 1	County	County / State origin of sample(s):	f sample(s):				<u> </u>			Droi Mar-
	5			ifelandara.	Missouri						lambart, Cubac
	oren day	mguatory riogiam (DW, NCNA, etc.) as applicable:	ACKA, etc.) as a	Dicaple:	1000	子					
[ ] Level [ ] Level [ ] L6	[ ] Level IV					and the second	1.000#8000	1			
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Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk	Sludge (SL), Caulk	wy, waste wat	er (ww), Predu	7 (P), Soil/Solid	SS), Oll (OL), Wipe	e (WP), Tissue (TS	), Bioassay (B), Vapo				ottle Ord ID:
		Comp /	Collected		Composite End	te End	Ros Number & Type of	-			1143137
Customer sample ID	Matrix * Grab	Grab	(or Composite Start) Date Time	Start)	Date	Time	CL2 Containers	.002			Sample Comment
-04-01-105-CF-D-25	WIG										
								*			
04-01-108-HW-P-5	MQ	6	8/15/23	5190	١	1	-	×			
		+	-		-	1	_				
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04-01-110-CF-P-1	2			N NG			-	;			
H	3	۵		500				×			
04-01-110-CF-P-2	DW	<u> </u>		5090				×			
04-01-121-DW-P-27	MQ	S		7290				×			
04-01-121-KF-P-26	MQ	S		9290				×			
04-02-00H-BF-P-45	MQ	9		7540	-		-	×			
04-02-00H-BF-P-46	MQ	0		אלכח	_		-	>			
Customer Remarks / Special Conditions / Pos.			4		Collected By:	1	4	<	And selection will be desired to the following Decision Co.		
meet last				1 a	ie .	Kele De	4		Modifications Instructions from Pace		
EDD Media				S	Signature:	J	1		# Coolers: Thermometer ID: C	Correction Factor (°C):	Obs. Temp. (*C) Corrected Temp. (*C)
Belinquished by/Company (High	87	Date/Time:	1.5/20	1	Received by/Courbany	r. (Signature)	1	١	Date/Times	Tracking	11L,
Annithad bull obersam (Caraptite)	CIMIL	4/15/	115/25	23-2.8	1	*	M	}	9-14/8	7 Iracking Number:	Number:
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ANIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL bocUMENT - Complete all relevant fields	LAB USE ONLY- Affix WorkorderfLogin Label Here	Scan QR Code for instructions	Specify Container Size **   **Container Size: [1] 11, [2] 500mL [3] 250mL [4]   25mL [4]   25mL [6] 100mL [6] 40mL vial, (7) Encore, (8)   70mB vial, (8) Encore, (8)   70mB vial, (8) Encore, (8)   70mB vial, (8) Encore, (9)	Identify Container Preservative Type***		VinO sst	Profile / Template: Hazelwood event	Probg / Bottle Ord, ID: 1143137	Sample Comment											Additional Instructions from Pace*:	# Coolers: Thermometer ID: Correction Factor [**C]: Obs. Temp. (**C) Corrected Temp. (**C)	PAST 18 25	Date/Time; Delivered by: [ ] In- Person [ ] Courier	Date/Tube: [ ] FedEX [ ] UPS [ ] Other	
CHAIN-OF-CUSTODY  Chain-of-Custody is a 160  BRSS gas City, MO 64108  TEM HS	/ Analytical Request Document AL DOCUMENT - Complete all relevant fields	chel 126 invironmentalworks.com	er sakels		Missouri		Field Filtered (if applicable): [ ] Yes [   No Analysis:	SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V),	nposite End Res. reminer is Type of CLIZ Containers  CLIZ Plastic Glass	×	×	*	×	×	×	×	×	×	*	Redul D	Signature: Political Polit	Received by Company: (Signature)	Raceived by/Company, (Signajdie)	Received by/Company: (Signature)	
TEM HS  TEM HS	CHAIN-OF-CUSTODY Chain-of-Custody is a LEGA	lepart To:		applicable): Quote #:		اۃا	9 (24/2033	Waste Water (WW), P-oduct (P), Soil/Solid	(or Composite:	9/15/23	4/15/23			9/15/23				-				1/15/23-8:3			
	ka, KS 66219	ORKS sas City, MO 64108	тем нѕ		] []	[ ]2 Day [	Date Results Requested:	inking water (DW), Ground Water (GW), 'S Sludge (SL), Caulk	Matrix E Gra	_	$\neg$	+	$\neg$						MQ	ossible Hazards:		A ENT			

Speece Auderions: 1731 IOCUST 57, Karenas CITY, MO 64108   Reconstructions of Contractive part and State (1974)   Contractive part and S	CHAIN-OF-CUSTODY Analytical Request Document  Chain-cf-Custody is a LEGAL DOCUMENT - Complete all relevant fields  Contact/Report To: Dercher, Rachel  Phone #: (816)285-8426  E-Mail: rdercher@environmentalworks.com  CE-Mail: rdercher@environmentalworks.com  COUNTY / State origin of sample(s): Missouri  Doute #: Field Filtered (if applicable: 1   Yes   Minor Analysis:	Scan QR Code for instructions  Specify Container Size ** *** **** Container Size ** ***	**Container Size: (1) 11, (2) Soomt, (3) 250mt, (4) 125mt, (5) 125mt, (5) 125mt, (7) Stoomt, (6) 125mt, (7) Stoomt, (6) 125mt, (7) Stoomt, (6) 125mt, (6) 125mt, (7) MerSO4, (6) Not. (6) Not. (6) Not. (6) Not. (6) Not. (7) NetSO4, (6) Not. (7) NetSO4, (6) Not. (7) Not. (8) Not. (7) Not. (8) Not. (7) Not. (8) Not. (8) Not. (8) Not. (9)
Company Name: ENVIRONMENTAL WORKS	pee 1 8 005	te for instructions	$\frac{5}{4}$ $\frac{(3)}{2}$ $\frac{(4)}{2}$ 10) bailitnabi aanamaolnoo-non noifevraean
Street Address: 173110CUST ST, Kansas Ctry, MO 64108   Phone #: 1916	bee   8 005	le for instructions	(a) (b) (b) non-monorano non notiseviasang
Step	200 8 Lead	le for instructions	(c) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
Customer Project #:   Project #:   Project #:   Project #:	200 8 6 8 9 9	te for instructions	(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Project Name: 233451.04 Frontier STEM HS   Project H:   Project Name: 233451.04 Frontier STEM HS   Project Name: 233451.04 Frontier STEM HS   Project Name: 233451.04 Frontier STEM HS   Site Collection Info/Facility ID (as applicable):   Project Name: 233451.04 Frontier STEM HS   Site Collection Info/Facility ID (as applicable):   Quorte H:   Importance of Collection Info/Facility ID (as applicable):   Quorte H:   Importance Sample   Import	200.8 Lead		(c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
Stree Collection Info/Facility ID (as applicable):   Purchase Order #     Purchase Order #	bee 18 005		(c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
Site Collection Info/Facility ID (as applicable):   Purchase Order #	bee 18 00S		(a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Stee Collection Info/Facility ID (as applicable):   Purchase Order # if applicable):   Purchase Order # if applicable):   Out # if   Image	200 8 Lead		(a) (b) (b) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Time Zone Collected:     JAK       PT       MT	bee 18.00S		Preservation non-conformance identified for
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET   County/State origin of sample	bee 1 8 00S		Preservation non-conformance identified for
Time Zone Collected:	pee 1 8 005		mbert-Sykes  Thent ID:  Tevent to ord. ID:  Preservation non-conformance identified for
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET   County/State origin of sample Data Deliverables:   Value   I   Level   II   Level   IV   Regulatory Program (DW, RCRA, etc.) as applicable   Regulatory Program (DW, RCRA, etc.) as applicable   I   Eduls   I   Level   IV   Rush   Pre-approval required :   I   Sound   I	bee 1 8 002		Totalined for non-conformance identified for
	bee 1 8 00S		Preservation non-conformance identified
	Dee 1 8 005		Preservation non-roon formance iden
EQUIS     12 Day     3 day     5 day     1 Other	bea I 8 005		อา อากะการใกละ ครายการการการการ
1 Other   1 Other   Paguested:   4/24/2623   Requested:   1 Other   Requested:   4/24/2623   Requested:   1 Other   Collected:   Matrix codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), So Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk   Comp   Composite Start   Comp   Corposite Start   Comp	bea 1 8 005		molnoz-non nobseviasai4
Requested:     Natrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste water (WW), Product (P), So Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk	bee I 8 005		Te servetion non-coor
• Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste water (WW), Product (P), So Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk         Comp / Grab         Comp of Grab         Collected           04-02-205-CF-P-36         DW         Grab         Date         Trin           04-02-205-CF-P-38         DW         O7         O7           04-02-205-CF-P-39         DW         O7           04-02-205-CF-P-40         DW         O7           04-02-205-CF-P-40         DW         O7           04-02-205-W-P-41         DW         O7           04-02-209-DW-P-43         DW         O6	bee 1 8 005	114 114	nent
Customer Sample ID         Matrix ormple Cromposite Start)         Comp / Grab         Composite Start)           04-02-205-CF-P-36         DW         G/34b         Date         Tm           04-02-205-CF-P-37         DW         Matrix orms         DW         DW         DV	318 002	114	mple Comment
Grab         Option         G         4/15/23           DW         DW         DW         DW           DW         DW         DW         DW           DW         DW         DW         DW	Date Time CL2 Plastic Glass of		
DW G 9/15/23  DW DW DW DW DW DW DW	 		
DW WD W			
MA M			
MA MA MA			
MQ MQ MQ MQ	<		
MQ MQ MQ	×		
MQ MQ	×		
MQ DW	× ×		
MQ	Stot OTal		
04-02-209-KF-P-42 DW			
The campaign	+		
	*		
Consoline Netital's / Special Collutions / Possible Mazardas.	Collected By: Rack Printed Name:	Additional Instructions from Pace®:	
See page)	Signature:	# Coolers: Thermometer ID: Correction Factor (°C): O	Obs. Temp. (*C) Corrected Temp. (*C)
10011	_		
THE COUL	Sec.	Date/Time: 18.03 Tracking Number:	
		Doba Times Of the Person	] In- Person [ ] Courier
Operation of Description (Signature)  Date/Time:	Received by/Company: (Signature)	Date/Time:	EX [ ]UPS [ ]Other
Mquished by/Company: (Signature)	Received by/Company: (Signature)	Date/Time:	
tt 2			Page: 5 % of 65

Version: 3 | Effective Date: 12/29/2021 | Issued by: Ormond Beach

Sample Condition Upon Receipt Form (SCUR)

Project #

Client:

Project Manager:

CLIENT: PACHAZ

Date and Initials of person: Examining contents: Label: Deliver:\_

7 160				pH:
Thermometer Used:	Date: 919-23	Time:	:52	Initials: CE
State of Origin:	T For WAY projects			
Cooler #1 Temp.°c21.3 (Visual)	☐ For WV projects, all contain	ers varitied to <6 °C		
Cooler #2 Temp. c22.2 (Visual)	24	(Actual)	☐Samples o	n ice, cooling process has begun
	(Correction Factor)	(Actual)		n ice, cooling process has begun.
	(Correction Factor)	(Actual)		n ice, cooling process has begun.
Cooler #4 Temp.°C (Visual)	(Correction Factor)	(Actual)		n ice, cooling process has begun
Cooler#5 Temp.°C (Visual)	(Correction Factor)	(Actual)		n ice, cooling process has begun.
Cooler#6 Temp.°C(Visual)	(Correction Factor)	(Actual)		n ice, cooling process has begun.
Recheck for QOT °C(Visual)	(Correction Factor)	(Actual)		
Commercial Commercial	ПРэзо		Time:	Initials:
Shipping Method: Standard Overnight First Overnight  Billing: Recipient Sender Third Party Conditional	Priority Overnight Ground G	International Priority		
Billing: □Recipient □Sender □Third Party □Credit Card	JUnknown		☐Other:	
Tracking # MOSTEY (0432139	23(80)			
Custody Seal Present: Wes No Seal properly placed and	intact: ZYes □No			
Packing Material: Daubble Wrap DBubble Bags DNone	□Other.	60	lce: □Wet □	Blue ODry Mone OMelted
Samples shorted to lab: Yes No (if yes, complete the following	Li Other,			
Shorted Date:	ng)			
Bottle Quantity / Type:				Shorted Time:
Chain of Custody:	No CINIA I DELL'			/
Chain of Custody:  Present: Yes No   Filled Out: Yes   Relinquished To Pace: Yes No NA	Relinquished From	Pace: Yes No No	WA   Sampler N	lame: □Yes ☑No □N/A
Relinquished To Pace: Ves No N/A	Date(s): Pives Lino	□N/A   Sampling Tin	ne(s): Wes 🗆	No ON/A
Rush Turnaround Requested on COC	LINO LINA	Comments.	/-	
Sufficient Volume	□Yes □No □N/A	Comments:		
Correct Containers Used,	☐Yes ☐No ☐N/A	Comments		
Containers Intact.	Yes ONO ON/A	Comments:		
Sample Labels Match COC (Sample ID, Date/Time of Collection).	Yes ONO ON/A	Comments:		
All containers needing acid / base preservation have been checked.	ØYes □No □N/A	Comments:		
dody base preservation have been checked.	□Yes □No □N/A	4	In Lan Prese	ervation Information
All containers needing processing		Preservative:	11703	Date: 9/22/23
All containers needing preservation are found to be in compliance with EPA recommendation:	□Yes □No □N/A	Lot / Trace: 35	514736	Time:
Exceptions, Vials, Microbiology, USG, PFA	CIVIA			A
feadspace in Volatile Vials? ( >6mm):		Amount added (r	mL);	Irittais: AV
inp Blank Present:	□Yes □No □N/A			
omments / Resolutions (use back for additional comments):	□Yes □No □N/A			100
	W		-	
onineits).				
- Comments).				

Inte	rnal Trans	fer Chain of Custod	у					<u> </u>											- /	S DI	) nco Analytical <sup>®</sup>
									t. Ne	_	n: MO	YES	5 ×	N	10				-	<i></i>	ace Analytical S
				M/ - ul u d	•	Frontier S			ner R	eceiv	ed	0.14	0/20					Requ	ueste		/20/2022
_	order: GI035 ort To:	95		Workord	ontract To:	233451.04	4-Drinking	Dat	e:			9/1	.9/20		20011	By:		alysis		9,	/29/2023
	nise Lambe	rt Sykos		Subc	Unitract 10.							-	$\overline{}$	<u> </u>	reque	1	u All	alysis	$\overline{}$	o	
	Hazelwoo			Pace	Analytical Or	rmand Boar	·h														
	Anglum Ro				t Tower Circl		<b>,</b> 111														
	elwood, MC				ond Beach, Fl	_															
	ne 800.333				572-5668	L 32174															
1 1101	110 000.555	.5270		300 (	772 3000				Prese	rved Co	ontainer	rs	DW Lead (Pb)	eck							
									1	1	T	_	aq	Chec							
													/ Le	ا ۾							
Item	Sample ID		Sample Type	Collect Date/	Time	Lab ID		Matrix					١٥	ınıp							LAB USE ONLY
1	04-01-108	-HW-P-5	Grab	9/15/2023	0613	GI035	595-01	DW					X	(							
2	04-01-108	-KF-P-3	Grab	9/15/2023	0613	GI035	595-02	DW					X >	(							
3	04-01-108	-KF-P-4	Grab	9/15/2023	0613	GI035	595-03	DW					X >	(							
4	04-01-110	-CF-P-1	Grab	9/15/2023	0609	GI035	595-04	DW					X	(							
5	04-01-110	-CF-P-2	Grab	9/15/2023	0609	GI035	595-05	DW					X	(							
6	04-01-121	-DW-P-27	Grab	9/15/2023	0636	GI035	595-06	DW					X >	(					Ш		
7	04-01-121		Grab	9/15/2023	0636	GI035	595-07	DW					X >	(					Ш		
8	<del>04-02-00</del> +	I-BF-P-45	<del>Grab</del>	<del>9/15/2023</del>	<del>0654</del>	G1035	<del>595-08</del>	<del>DW</del>	Ш		ш		<del>X</del> >	<del>(</del>					Ш		
9	<del>04-02-00</del> +	I-BF-P-46	<del>Grab</del>	<del>9/15/2023</del>	<del>0654</del>	G1035	<del>595-09</del>	<del>DW</del>					X	<del>(</del>					Ш		
10	04-01-000		Grab	9/15/2023	0650	GI035	595-10	DW					X >	(				丄	Ш	$\perp$	
Tran	sfers Relea	ased By			Date/Time		Reveived	Ву			Dat	te/Tin	ne					Com	men	ts	
1														:	*SAN	1PLES	S UNI	PRESE	.RVEC	) AT (	OLLECTION
2											1			1	0 DA۱	/ TAT	Γ, Rep	ort to	ა 1PP	B, <b>ST</b>	D EXCEL EDD

Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
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FMT-ALL-C-002rev.00 24March2009

<sup>\*\*\*</sup>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.

Inte	rnal T	ransfer Chain of Custody	,																<b>1</b>	2	o Analı tical
										Origin eded:	: MO	YES	х	NO	)					Pace	e Analytical www.pacelabs.com
						Frontier S	_			eceiv	ed						ts Red	ques			
_		GI03595			er Name:	233451.04	4-Drinking	Date	e:			9/19	/202			By:				9/2	9/2023
	ort To			Subc	ontract To:									Re	ques	ted A	Analys	is			
		imbert-Sykes																			
		lwood		Pace	Analytical Or	mand Beac	ch														
	_	m Road			t Tower Circl	_															
		d, MO 63042			ond Beach, Fl	_ 32174															
Pho	ne 800	).333.3278		386-6	572-5668				_			1 2	Ω .								
_									Prese	rved Co	ontainers		Check								
									ш				딩								
Item	Samı	ole ID	Sample Type	Collect Date/	Time	Lab ID		Matrix	Ш			į	Turk								LAB USE ONLY
1	<del>04-0</del>	<del>1-00H-BF-P-10</del>	<del>Grab</del>	9/13/2023	<del>0620</del>	G1035	<del>595-11</del>	<del>DW</del>				X	X				Ш				
2	<del>04-0</del>	<del>1-00H-BF-P-11</del>	<del>Grab</del>	<del>9/13/2023</del>	<del>0620</del>			<del>D₩</del>				X	X								
3	<del>04-0</del>	<del>1-00H-BF-P-12</del>	<del>Grab</del>	<del>9/13/2023</del>	<del>0620</del>	G1035	<del>595-13</del>	<del>D₩</del>				X	X								
4		<del>1-00H-BF-P-6</del>	<del>Grab</del>	<del>9/13/2023</del>	<del>0615</del>	G1035	<del>595-14</del>	<del>D₩</del>				X	X								
<del>5</del>	04-0	<del>1-00H-BF-P-7</del>	Grab	9/13/2023	<del>0618</del>	G1035	<del>595<b>-</b>15</del>	<del>DW</del>				X					Ш				
<del>6</del>	<del>04-0</del>	1 <del>-00H-BF-P-8</del>	<del>Grab</del>	9/13/2023	<del>0623</del>	G1035	<del>595-16</del>	<del>DW</del>				X	X				Ш				
7	04-0	<del>1-00H-BF-P-9</del>	<del>Grab</del>	9/13/2023	<del>0623</del>	G1035	<del>595-17</del>	<del>DW</del>				X	X				Ш				
8	04-0	1-105-CF-P-13	Grab	9/13/2023	0629	GI035	595-18	DW				Х	X				Ш				
9	04-0	2-205-CF-P-36	Grab	9/13/2023	0708	GI035	595-19	DW				Х	X								
10	04-0	2-205-CF-P-37	Grab	9/13/2023	0710	GI035	595-20	DW				Х	X								
Tran	sfers	Released By			Date/Time		Reveived	Ву			Date	e/Time	2				Cor	mme	nts		
1														*S	AMP	LES U	NPRES	SERVI	ED AT	COI	LLECTION
2														10	DAY 1	ΓΑΤ, R	eport	to 1F	PPB, S	STD F	EXCEL EDD

Cooler Tempera	ture on Receipt	°C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
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Inte	rnal Tra	nsfer Chain of Custody						State		_	МО							_ /		Pac	e Analytical
								Cert.	Neede	ed:		YES	Х	NO							
						Frontier S	гем нѕ	Owne	r Rec	eive	d				R	Result	ts Re	ques	ted		
Work	order: Gl	03595		Workord	er Name:	233451.04	-Drinking	Date:				9/19	/202	3	В	By:				9/2	9/2023
Rep	ort To:			Subco	ontract To:									Rec	quest	ted A	nalys	is			
Che	nise Lam	bert-Sykes																			
Pace	e Hazelw	rood		Pace	Analytical Or	rmand Beacl	า														
944	Anglum	Road		8 Eas	t Tower Circl	e															
Haze	elwood,	MO 63042		Ormo	nd Beach, Fl	L 32174															
Pho	ne 800.3	33.3278		386-6	572-5668							ءِ ا	2								
								F	Preserve	d Cor	ntainers	(40) 600	Check								
14.0.00	Cample	. ID	Comple Tupe	Callest Date	Timo	Lab ID	N.4	atrix					Turb								LABLICE ONLY
1tem	Sample	205-CF-P-38	Sample Type Grab	Collect Date/ 9/13/2023	0709	GI035						X	X → ⊢	H		-		-	+	₩	LAB USE ONLY
2	-	205-CF-P-39	Grab	9/13/2023	0709	GI035						l x	X	Н		+		-	+	$\vdash$	
3	-	205-CF-P-40	Grab	9/13/2023	0703	GI035		-				l x	X	Н		+		-	+	$\vdash$	
4	-	209-DW-P-41	Grab	9/13/2023	0659	GI035						T x	X	Н		+		-	+	$\vdash$	
5	-	209-DW-P-41 209-DW-P-43	Grab	9/13/2023	0701	GI035						1 x	X	Н		+		-	+	$\vdash$	
6		209-DW-P-44	Grab	9/13/2023	0701	GI035						X	X	H		+		-	+	$\vdash$	
7		209-KF-P-42	Grab	9/13/2023	0701	GI035						X	X	H		+		-	+	$\vdash \vdash$	
, 8		00H-BF-P-47	Grab	<del>9/13/2023</del>	<del>0652</del>	G1033						X	_			+		-	+	H	
9		00H-BF-P-48	Grab	9/13/2023	<del>0652</del>	GI035						X	_	H	-	_	H		+	H	
10		00H-BF-P-49	Grab	9/13/2023	<del>0657</del>	GI035			+	Н		X	_	H		+		-	+	H	
		eleased By	0.00				Received By				Date	e/Time	_				Cor	nme	nts		
1												,		*S/	AMPI	LES U		_		Γ COI	LLECTION
2																					EXCEL EDD

Cooler Tempera	ture on Receipt	°C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
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FMT-ALL-C-002rev.00 24March2009

Inte	rnal T	Transfer Chain of Custody	/															_	9	7	
									of Or	_	: MO	7,,=6		1				_ /-	P	ace Analytic	cal
								Cert.	Need	ed:		YES	Х	NO				1			
						Frontier ST	гем нs	Own	er Rec	eive	d				R	esult	s Req	uest	ed		
Work	korder:	GI03595		Workord	er Name:	233451.04	-Drinking	Date	:			9/19	/202	3	В	y:			9	/29/2023	
Rep	ort To	:		Subc	ontract To:									Rec	uest	ed Ar	nalysis	S			
Che	nise La	ambert-Sykes																	1		
Pace	e Haze	elwood		Pace	Analytical O	rmand Beacl	h												1		
	_	m Road		8 Eas	t Tower Circl	е													1		
		d, MO 63042			ond Beach, Fl	L 32174													1		
Pho	ne 800	0.333.3278		386-6	572-5668							]	2								
			,						Preserve	ed Co	ntainers	(40) 600	Check								
Item	Samı	ple ID	Sample Type	Collect Date/	Time	Lab ID	M	1atrix					Turb							LAB USE O	)NLY
1		<del>2-00H-BF-P-50</del>	<del>Grab</del>	<del>9/15/2023</del>	<del>0651</del>	GI035	95-31 D	₩				X	X								
2	04-0	<del>2-00H-BF-P-51</del>	<del>Grab</del>	<del>9/15/2023</del>	<del>0651</del>	GI035	95-32 D	₩				X	X								
3	04-0	2-204-CF-P-52	Grab	9/15/2023	0704	GI035	95-33 D'	W				Х	Х						Ш		
4	04-0	2-205-CF-P-32	Grab	9/15/2023	0707	GI035	95-34 D'	W				Х	Х						Ш		
5		2-205-CF-P-33	Grab	9/15/2023	0711	GI035		W				Х	Х						Ш		
6		2-205-CF-P-34	Grab	9/15/2023	0710	GI035		W				Х	Х						Ш		
7		2-205-CF-P-35	Grab	9/15/2023	0708	GI035		W				Х	Х						Ш		
8		1-00G-BF-P-28	<del>Grab</del>	<del>9/15/2023</del>	<del>0642</del>			W				X	_					Ш	$\sqcup$		
9	<del>04-0</del>	1-00G-BF-P-29	<del>Grab</del>	<del>9/15/2023</del>	<del>0641</del>	GI035		W				X	X						Ш		
10		1-00G-SF-P-30	Grab	9/15/2023	0622	GI035				上	Ш	X	_	Ш	$\perp$	$\perp \perp$	丄	Ш	Ш		_
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2														10 D	AY TA	AT, Re	port t	.o 1PF	₽B, <b>ST</b>	D EXCEL EDD	)

Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
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<sup>\*\*\*</sup>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.

FMT-ALL-C-002rev.00 24March2009



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

September 27, 2024

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

RE: 233451.04\_Frontier STEM HS - Drinking Water Lead

Dear Rachel L. Dercher:

Please find enclosed the analytical results for the 8 sample(s) the laboratory received on 9/21/24 11:45 am and logged in under work order HI04134. 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

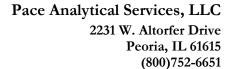


# **SAMPLE RECEIPT CHECK LIST**

# Items not applicable will be marked as in compliance

	Work Order HI04134
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

Customer #: 72-106154 www.pacelabs.com





Sample: HI04134-01

Name: 04-01-H110-DW-P-53 Matrix: Drinking Water - Grab Sampled: 09/17/24 04:51

Received: 09/21/24 11:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		09/25/24 10:58	1	1.00	09/25/24 13:44	BRS	EPA 200.8 REV 5.4
Sample: HI04134-02							Sampled: 09/17/2	4 04:51	<u> </u>

Name: 04-01-H110-DW-P-53\_B Matrix: Drinking Water - Grab

Result

< 1.00

Unit

ug/L

Qualifier

Analyzed

Received: 09/21/24 11:45

Analyst

BRS

Total Metals - PIA								
Lead	< 1.00	ug/L	09/25/24 10:58	1	1.00	09/25/24 13:46	BRS	EPA 200.8 REV 5.4

Prepared

Dilution

1

MRL

1.00

Sample: HI04134-03 Name: 04-01-H-DW-P-56

Matrix: Drinking Water - Grab

Sampled: 09/17/24 04:57 Received: 09/21/24 11:45

Parameter Result Unit Qualifier Prepared Dilution MRL Analyzed Analyst Method Total Metals - PIA

09/25/24 10:58

Sample: HI04134-04

Parameter

Lead

Name: 04-01-H101-DW-P-58 Matrix: Drinking Water - Grab Sampled: 09/17/24 05:02

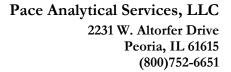
09/25/24 13:47

Received: 09/21/24 11:45

Parameter Result Unit Qualifier Prepared Dilution MRL Method Analyzed Analyst Total Metals - PIA Lead 1.06 ug/L 09/25/24 10:58 1.00 09/25/24 13:48 **BRS** EPA 200.8 REV 5.4

Method

EPA 200.8 REV 5.4





Sample: HI04134-05

Name: 04-02-H205-DW-P-59
Matrix: Drinking Water - Grab

**Sampled:** 09/17/24 05:09

**Received:** 09/21/24 11:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		09/25/24 10:58	1	1.00	09/25/24 13:50	BRS	EPA 200.8 REV 5.4
Sample: HI04134- Name: 04-02-H2 Matrix: Drinking							Sampled: 09/17/2 Received: 09/21/2	24 05:08 24 11:45	
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method

Sample: HI04134-07

Name: 04-02-H218-DW-P-62

Matrix: Drinking Water - Grab

**Sampled:** 09/17/24 05:14 **Received:** 09/21/24 11:45

Qualifier Dilution MRL Method **Parameter** Result Unit Prepared Analyzed Analyst Total Metals - PIA EPA 200.8 REV 5.4 Lead < 1.00 ug/L 09/25/24 10:58 1 1.00 09/25/24 13:53 **BRS** 

Sample: HI04134-08

Name: 04-02-H218-DW-P-63

Matrix: Drinking Water - Grab

Result

Unit

Qualifier

**Sampled:** 09/17/24 05:15 **Received:** 09/21/24 11:45

Analyzed Analyst Method

Total Metals - PIA

Parameter

Lead < 1.00 ug/L 09/25/24 10:58 1 1.00 09/25/24 13:54 BRS EPA 200.8 REV 5.4

Dilution

MRL

Prepared



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



HI04134/CJ

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	Anglum Road		2231 W		Drive												
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Pho	ne 800.333.3278		800.752.	6651			Mark College			Pb)	ایا						
				William Seattle			Presen	ved Co	ntainers	DW Lead (Pb)	Turb Check						
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6	04-02-H205-DW-P-59_B	Grab	9/17/2024	508	GL0XXXX-0	06 DW				X	Х					$\Box$	
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# **A**TTACHMENT **C** Photo Documentation

## **Water Outlet Photo Documentation**

## FSI STEM High School 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 15, 2023 and September 17, 2024 Project # 233451.04



View of potential DWO and sample 04-01-110-CF-P-1



View of potential DWO and sample 04-01-110-CF-P-2



View of potential DWO and sample 04-01-108-KF-P-3



View of potential DWO and sample 04-01-108-KF-P-4



View of potential DWO and sample 04-01-108-HW-P-5



View of potential DWO and sample 04-01-00H-BF-P-6



View of potential DWO and sample 04-01-00H-BF-P-7



View of potential DWO and sample 04-01-00H-BF-P-8



View of potential DWO and sample 04-01-00H-BF-P-9



View of potential DWO and sample 04-01-00H-BF-P-10



View of potential DWO and sample 04-01-00H-BF-P-11



View of potential DWO and sample 04-01-00H-BF-P-12



View of potential DWO and sample 04-01-105-CF-P-13 (No sample taken. Outlet was offline.)



View of potential DWO and sample 04-01-105-CF-P-14 (No sample taken. Outlet was offline.)



View of potential DWO and sample 04-01-105-CF-P-15 (No sample taken. Outlet was offline.)



View of potential DWO and sample 04-01-105-CF-P-16 (No sample taken. Outlet was offline.)



View of potential DWO and sample 04-01-105-CF-P-17 (No sample taken. Outlet was offline.)



View of potential DWO and sample 04-01-121-KF-P-26



View of potential DWO and sample 04-01-121-DW-P-27



View of potential DWO and sample 04-01-00G-BF-P-28



View of potential DWO and sample 04-01-00G-BF-P-29



View of potential DWO and sample 04-01-00H-DW-P-30



View of potential DWO and sample 04-02-00H-DW-P-31



View of potential DWO and sample 04-02-205-CF-P-32



View of potential DWO and sample 04-02-205-CF-P-33



View of potential DWO and sample 04-02-205-CF-P-34



View of potential DWO and sample 04-02-205-CF-P-35



View of potential DWO and sample 04-02-205-CF-P-36



View of potential DWO and sample 04-02-205-CF-P-37



View of potential DWO and sample 04-02-205-CF-P-38



View of potential DWO and sample 04-02-205-CF-P-39



View of potential DWO and sample 04-02-205-CF-P-40



View of potential DWO and sample 04-02-209-DW-P-41



View of potential DWO and sample 04-02-209-KF-P-42



View of potential DWO and sample 04-02-209-DW-P-43



View of potential DWO and sample 04-02-209-DW-P-44



View of potential DWO and sample 04-02-209-DW-P-44



View of potential DWO and sample 04-02-00H-BF-P-45



View of potential DWO and sample 04-02-00H-BF-P-46



View of potential DWO and sample 04-02-00H-BF-P-47



View of potential DWO and sample 04-02-00H-BF-P-48



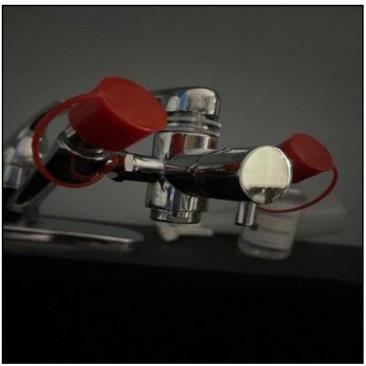
View of potential DWO and sample 04-02-00H-BF-P-49



View of potential DWO and sample 04-02-00H-BF-P-50



View of potential DWO and sample 04-02-00H-BF-P-51



View of potential DWO and sample 04-02-204-CF-P-52



View of potential DWO and samples 04-01-H110-DW-P-53 (bubbler unit) and 04-01-H110-DW-P-53\_B (bottle filler)



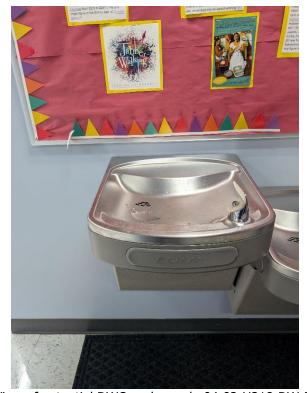
View of potential DWO and sample 04-01-H-DW-P-56



View of potential DWO and sample 04-01-H101-DW-P-58



View of potential DWO and sample 04-02-H205-DW-P-59 (bubbler unit) and 04-02-H205-DW-P-59\_B (bottle filler)



View of potential DWO and sample 04-02-H218-DW-P-62



View of potential DWO and sample 04-02-H218-DW-P-63