COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MO
LEAD AND COPPER MONITORING
SUMMARY REPORT

DATE: April 12, 2022

FACILITY NAME: FIELD ELEMENTARY SCHOOL

A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY 20

2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS 100.0%

1. COPPER ACTION LIMIT = 1,300 UG/

3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS 100.0%

 LEAD ACTION LIMIT = 15 UG/L (The requirement in the USEPA Lead and Copper Rule for public water supplies is 90% passing)

B. SAMPLE EXCEEDANCE

1. NUMBER OF SAMPLES EXCEEDING COPPER ACTION LIMIT 0

2. NUMBER OF SAMPLES EXCEEDING LEAD ACTION LIMIT 0

C. CONCLUSION

This facility meets the (recommended) requirements of the United States Environmental Protection Agency (USEPA) and the published Lead and Copper Rule (LCR) of 1991 (reference: 40 CFR Part 141 Subpart I). Public Run Water Suppliers must comply with the USEPA law and the LCR. Columbia Water & Light is the publicly run water utility that serves this school.

Initially failed tests were resampled using the first flush method and tested for verification. Should the laboratory analysis reveal results that exceed the LCR action limits, you can utilize the recommendations within the LCR to address those specific locations. They include but are not limited to: flushing prior to use (make it a practice to run the water at each tap before use), repairing and/or replacing fixtures and/or piping and by not using the water for consumption. All are recommended by the Lead and Copper Rule.

Although the Lead and Copper Rule may not directly apply to Columbia Public Schools and each of its schools or support buildings that are part of the 2020 City of Columbia Water Quality Assessment Report; it is a common practice for experts in the field and members of the known industry to use the standard as a guideline for water assessment studies.

Prepared By:

Jahn DLA

Joshua D. Lehmen, PE



PDC Laboratories

PROFESSIONAL • DEPENDABLE • COMMITTED

September 29, 2021

Josh Lehmen Engineering Surveys & Services 1113 Fay Street Columbia, MO 65201

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the **21** sample(s) the laboratory received on **8/16/21 3:40 pm** and logged in under work order **EH04413**. 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 PDC Laboratories.

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

PDC Laboratories. 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 Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or Igrant@pdclab.com.

Sincerely,

Erin Lane

Project Manager

Ini M Save





SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

vvork Order	EH04413

YES	Samples received within temperature compliance when applicable
NO	COC present upon sample receipt
YES	COC completed & legible
NO	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
NO	Current PDC COC submitted
YES	Case narrative provided

Customer #: 275332 www.pdclab.com



Sample: EH04413-01

Name: 1. HALL BY 303 - ELECTRIC WATER COOLER

Alias: FLD-H303-EWC-1

Sampled: 08/11/21 08:05

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	240	ug/L	0	08/26/21 13:01	5	3.0	08/26/21 15:39	TJJ	EPA 200.8 REV 5.4
Lead	3.1	ug/L	0	08/26/21 13:01	5	1.0	08/26/21 15:39	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-02

Name: 2. HALL BY 203 - ELECTRIC WATER COOLER

Alias: FLD-H203-EWC-2

Sampled: 08/11/21 08:05

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	160	ug/L	C	08/26/21 13:01	5	3.0	08/26/21 15:41	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 15:41	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-03

Name: 3. TEACHERS LOUNGE FAUCET

Alias: FLD-TLF-1

Sampled: 08/11/21 07:47 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	260	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:42	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:42	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-04

Name: 4. NURSE STATION FAUCET

Alias: FLD-NSF-1

Sampled: 08/11/21 07:52 **Received:** 08/16/21 15:40

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	200	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:44	TJJ	EPA 200.8 REV 5.4
Lead	5.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:44	TJJ	EPA 200.8 REV 5.4



Sample: EH04413-05

Name: 5. KITCHEN FAUCET

Alias: FLD-KF-1

Sampled: 08/11/21 07:50 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	l Dilution	n MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	520	ug/L	08/26/21 13	:01 5	3.0	08/26/21 15:45	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/26/21 13	:01 5	1.0	08/26/21 15:45	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-06

Name: 6. HALL BY 106 - ELECTRIC WATER COOLER

Alias: FLD-H106-EWC-3

Sampled: 08/11/21 07:55 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	200	ug/L	0	8/26/21 13:01	5	3.0	08/26/21 15:54	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	0	8/26/21 13:01	5	1.0	08/26/21 15:54	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-08

Name: 8. HALL BY 110 - ELECTRIC WATER COOLER

Alias: FLD-H110-EWC-5

Sampled: 08/11/21 07:58

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	120	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:56	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-09

Name: 9. ROOM 112 - DRINKING WATER FOUNTAIN

Alias: FLD-112-DWF-1

Sampled: 08/11/21 08:20 **Received:** 08/16/21 15:40

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	56	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:57	TJJ	EPA 200.8 REV 5.4
Lead	54	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:57	TJJ	EPA 200.8 REV 5.4



Sample: EH04413-10

Name: 10. ROOM 114 - DRINKING WATER FOUNTAIN

Alias: FLD-114-DWF-2

Sampled: 08/11/21 08:22 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	5.4	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:59	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:59	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-11

Name: 11. ROOM 118 - DRINKING WATER FOUNTAIN

Alias: FLD-118-DWF-3

Sampled: 08/11/21 08:32 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	180	ug/L	(08/26/21 13:01	5	3.0	08/26/21 16:00	TJJ	EPA 200.8 REV 5.4
Lead	3.8	ug/L	(08/26/21 13:01	5	1.0	08/26/21 16:00	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-12

Name: 12. ROOM 113 - CLASSROOM FAUCET

Alias: FLD-113-CF-1

Sampled: 08/11/21 08:26

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	63	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:02	TJJ	EPA 200.8 REV 5.4
Lead	7.5	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:02	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-13

Name: 13. ROOM 116 - CLASSROOM FAUCET

Alias: FLD-116-CF-2

Sampled: 08/11/21 08:24 **Received:** 08/16/21 15:40

Parameter	Result	Unit	Qualifier Prepared	Prepared Dilution MRL		Analyzed	Method	
<u>Total Metals - PIA</u>								
Copper	20	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:03	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:03	TJJ	EPA 200.8 REV 5.4



Sample: EH04413-14

Name: 14. ROOM 115 - CLASSROOM FAUCET

Alias: FLD-115-CF-3

Sampled: 08/11/21 08:28 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	42	ug/L	08/26/21 13:0	01 5	3.0	08/26/21 16:05	TJJ	EPA 200.8 REV 5.4
Lead	2.9	ug/L	08/26/21 13:0	01 5	1.0	08/26/21 16:05	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-15

Name: 15. ROOM 117 - DRINKING WATER FOUNTAIN

Alias: FLD-117-DWF-4

Sampled: 08/11/21 08:30 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	6.1	ug/L	08/	/26/21 13:01	5	3.0	08/26/21 16:14	TJJ	EPA 200.8 REV 5.4
Lead	1.5	ug/L	08/	/26/21 13:01	5	1.0	08/26/21 16:14	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-16

Name: 16. ROOM 201 - CLASSROOM FAUCET

Alias: FLD-201-CF-4

Sampled: 08/11/21 08:08 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	99	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:15	TJJ	EPA 200.8 REV 5.4
Lead	8.3	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:15	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-17

Name: 17. ROOM 202 - CLASSROOM FAUCET

Alias: FLD-202-CF-5

Sampled: 08/11/21 08:10 **Received:** 08/16/21 15:40

Parameter	Result	Unit	Qualifier Prepared	Prepared Dilution MRL		Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	65	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:17	TJJ	EPA 200.8 REV 5.4
Lead	9.3	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:17	TJJ	EPA 200.8 REV 5.4



Sample: EH04413-18

Name: 18. ROOM 203 - CLASSROOM FAUCET

Alias: FLD-203-CF-6

Sampled: 08/11/21 08:12 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	140	ug/L	C	08/26/21 13:01	5	3.0	08/26/21 16:18	TJJ	EPA 200.8 REV 5.4
Lead	7.2	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 16:18	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-19

Name: 19. ROOM 301 - CLASSROOM FAUCET

Alias: FLD-301-CF-7

Sampled: 08/11/21 08:14 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	200	ug/L	C	08/26/21 13:01	5	3.0	08/26/21 16:20	TJJ	EPA 200.8 REV 5.4
Lead	48	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 16:20	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-20

Name: 20. ROOM 302 - CLASSROOM FAUCET

Alias: FLD-302-CF-8

Sampled: 08/11/21 08:16

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Prepared Dilution MRL		Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	240	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:21	TJJ	EPA 200.8 REV 5.4
Lead	13	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:21	TJJ	EPA 200.8 REV 5.4

Sample: EH04413-21

Name: 21. ROOM 303 CLASSROOM FAUCET

Alias: FLD-303-CF-9

Sampled: 08/11/21 08:18 **Received:** 08/16/21 15:40

Parameter	Result	Unit	Qualifier Prepared	pared Dilution MRL		Analyzed	Analyst	Method
Total Metals - PIA								
Copper	130	ug/L	08/26/21 13:01	5	3.0	08/26/21 16:23	TJJ	EPA 200.8 REV 5.4
Lead	14	ug/L	08/26/21 13:01	5	1.0	08/26/21 16:23	TJJ	EPA 200.8 REV 5.4



NOTES

Specifications regarding method revisions and method modifications 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: Erin Lane, Project Manager





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

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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

FOR LAB USE ONLY)	TOGIN #	LOGGED BY:	CLIENT:	PKOJ. MGR.: CUSTODY SEAL #:	REMARKS							I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance	iv NOT be acceptable to report to all regulatory authorities. : (INITALS)	COMMENTS: (FOR LAB USE ONLY)			SAMPLE TEMPERATURE UPON RECEIPT	CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N	SAMPLE ACCEPTANCE NONCONFORMANT YOR N PATE AND TIME TAKEN FROM SAMPLE BOTTLE	
ANALYSIS REQUESTED												box I give the lab prequirements as de	olicy and the data will be qualified. Qualified data may <u>NOT</u> be ac PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)			T	SAMPLE	CHILL PR	REPORTI DATE AN	
# [*)	1	ndar		suq pe	Coper	20						y initialing this e conformance	will be qualifie NALYSIS AND	DATE	JWE	DATE	TIME	DATE	TIME	3/3/2021
PURCHASE ORDER#	DATE SHIPPED		WW- WASTEWATER DW-DRINGHO WATER GW- GROUND WATER	WWSL-SLUDGE NAS-NON AQUEDUS SOLID LCHT-LEACHATE OIL-OIL SOL-SOIL SOL-SOLID	BOTTLE PR						7-OTHER	understand that b	olicy and the data PROCEED WITH A		-1/,					P
PROJECT LOCATION Columbia, MO	E-MAIL	jlehmen@ess-inc.com			SAMPLE TYPE MATRIX GRAB COMP TYPE	×					3 6 - UNPRESERVED	DATE RESULTS NEEDED (6)		RECEIVED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		PAGE
L14571 C		-2646	sampler (Please Print) Josh Lehmen	SAMPLER'S SIGNATURE	DATE TIME COLLECTED	8-11-21					4-NAOH 6-NA2S203			RECEIVED B		RECEIVED BY	Ï	RECEIVED BY		
		57;		SIGN		8-1					2-H2SO4 3-HNO3	LE) NORMAL RUSH SURCHARGE)	PHONE # IF DIFFERENT FROM ABOVE:	DATE 8-13-21	TIME	DATE	TIME	DATE	JME	REV 5
Engineering Surveys & Services	ADDRESS	1113 Fay Street	STATE Columbia, MO	conract Person Josh Lehmen	SAMPLE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	Field Elementary School					CHEMICAL PRESERVATION CODES: I-HCL 2-	TURNAROUND TIME REQUESITED (PLEASE CIRCLE) NORMAL (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) BITEL DESILITE VIA THE SASE AND SUBJECT DICKLE	EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT	RELINQUISHED BY: (SIGNATURE)	July Galler	RELINQUISHED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		QUALTRAX 3219 REV 5

Page 10 of 11

Location:	Field School	
Sample Date:	8/11/2021	
Sample Time:	Various	
Sampled By:	Kyle Vidusic	

Sample No.	Coding System	Description	Sample Collected
1	FLD-H303-EWC-1	Hall by 303 - Electric Water Cooler	Yes
2	FLD-H203-EWC-2	Hall by 203 - Electric Water Cooler	Yes
3	FLD-TLF-1	Teachers Lounge Faucet	Yes
4	FLD-NSF-1	Nurse Station Faucet	Yes
5	FLD-KF-1	Kitchen Faucet	Yes
6	FLD-H106-EWC-3	Hall by 106 - Electric Water Cooler	Yes
7	FLD-H106-EWC-4	Hall by 106 Electric Water Cooler Removed	No
8	FLD-H110-EWC-5	Hall by 110 - Electric Water Cooler	Yes
9	FLD-112-DWF-1	Room 112 - Drinking Water Fountain	Yes
10	FLD-114-DWF-2	Room 114 - Drinking Water Fountain	Yes
11	FLD-118-DWF-3	Room 118 - Drinking Water Fountain	Yes
12	FLD-113-CF-1	Room 113 - Classroom Faucet	Yes
13	FLD-116-CF-2	Room 116 - Classroom Faucet	Yes
14	FLD-115-CF-3	Room 115 - Classroom Faucet	Yes
15	FLD-117-DWF-4	Room 117 - Drinking Water Fountain	Yes
16	FLD-201-CF-4	Room 201 - Classroom Faucet	Yes
17	FLD-202-CF-5	Room 202 - Classroom Faucet	Yes
18	FLD-203-CF-6	Room 203 - Classroom Faucet	Yes
19	FLD-301-CF-7	Room 301 - Classroom Faucet	Yes
20	FLD-302-CF-8	Room 302 - Classroom Faucet	Yes
21	FLD-303-CF-9	Room 303 - Classroom Faucet	Yes
22	FLD-		
23	FLD-		
24	FLD-		
25	FLD-		
26	FLD-		
27	FLD-		
28	FLD-		
29	FLD-		
30	FLD-		
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34	FLD-		
35	FLD-		
36	FLD-		
37	FLD-		
38	FLD-		
39	FLD-		



Sample: EL04058-70

Name: 9. Room 112 - Drinking Water Fountain

Alias: FLD-112-DWF-1

Sampled: 12/17/21 07:10

Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier Prepa	ared Dilution	n MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	8.6	ug/L	01/06/22	2 09:26 1	3.0	01/06/22 12:25	KMC	EPA 200.8 REV 5.4
Lead	2.4	ug/L	01/06/22	2 09:26 1	1.0	01/06/22 12:25	KMC	EPA 200.8 REV 5.4

Sample: EL04058-71

Name: 19. Room 301 - Classroom Faucet

Alias: FLD-301-CF-7

Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Sampled: 12/17/21 07:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	180	ug/L	(01/06/22 09:26	1	3.0	01/06/22 12:26	KMC	EPA 200.8 REV 5.4
Lead	28	ug/L	(01/06/22 09:26	1	1.0	01/06/22 12:26	KMC	EPA 200.8 REV 5.4



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

April 12, 2022

Josh Lehmen Engineering Surveys & Services 1113 Fay Street Columbia, MO 65201

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the 1 sample(s) the laboratory received on 4/4/22 2:50 pm and logged in under work order FD00515. 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 Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Erin Lane

Project Manager (309)683-1767

erin.lane@pacelabs.com

Fri Mosave



SAMPLE RECEIPT CHECK LIST

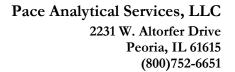
Items not applicable will be marked as in compliance

Work Order

FD00515

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	COC completed & legible
NO	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
NO	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 #: 72-100995 www.pacelabs.com





Sample: FD00515-01

Sampled: 03/31/22 11:58 Received: 04/04/22 14:50 Name: Room 301- Classroom Faucet

Alias: FLD 19 Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	60	ug/L	04/11/22 12:52	1	3.0	04/11/22 14:46	KMC	EPA 200.8 REV 5.4
Lead	5.7	ug/L	04/11/22 12:52	1	1.0	04/11/22 14:46	KMC	EPA 200.8 REV 5.4

Customer #: 72-100995



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

Mosane

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

www.pacelabs.com

Certified by: Erin Lane, Project Manager





QUALTRAX 3219 REV 5

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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

Page 5 of 6

	PROJECT NUMBER	PROJECT LOCA		PURCHASE ORI			-				(FOR LAB USE ONLY)
Engineering Surveys & Services	L14571	Columbia,	and the trans	PURCHASE ORI	DER#	(3)) ANA	LYSIS REQ	UESTED		(4)
ADDRESS	PHONE NUMBER	E-MAIL		DATE SHIPP	ED						LOGIN# F000515-01
1113 Fay Street	573-449-2646	6 jlehmen@ess-inc.co		4/1/22							.OGGED BY:
COLUMBIA, MO 65201	SAMPLER (PLEASE PRINT) Kyran Burks	*	MATRIX TYPES WW- WASTEWATER DW- ORINKING WATER GW- GROUND WATER WWSL SL LINGE			Lead					PROJECT:PROJ. MGR.:
Josh Lehmen	SAMPLER'S SIGNATURE			WWSL- SLUDGE NAS- NON AQUEOUS SO LCHT-LEACHATE OIL-OIL SO-SOIL SOL-SOLID	OLID	er and					:USTODY SEAL #:
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE TIME COLLECTED	GRAB COMP	MATRIX TYPE	COUNT	PRES CODE CLIENT ROVIDED	Copper					REMARKS
Various Samples From Various Schools (See attached sheet)	bottle bottle	X				6	9				Field Elementary
Please provide separate reports for each school				-							School
			411/19/4, 17/19/4, 1.27 (1.27/19/4							1	
							-	-		-	
						_					
							_	_		-	
a a											
								13			
CHEMICAL PRESERVATION CODES: I – HCL 2 – H2SO4 3 –	HNO3 4 - NAOH 5 - N	A2S2O3 6 - UNPR	ESERVED	7 – OTHER							
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORM (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE	DATE RESULTS NEEDED	6	I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.					iving facility's Sample Acceptance			
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVI			PROCEED WITH							able to report to all regulatory authorities.	
RELINQUISHED BY: (SIGNATURE)			DATE	1, 1	-) ~				(FOR LAB USE ONLY)		
TIME TIME	-		TIME) ·)	1						
RELINQUISHED BY: (SIGNATURE) DATE (1 - 2 - TIME 4 5 5 5 5 5 5 5 5 5					DATTE/	4/2	2				UPON RECEIPT 9°C
RELINQUISHED BY SUGNATURES DATE	(1) 2 (1) 1 (1)	VED BY: (SIGNATURE)			DATE O'G TIME	lou	122	SAMPLI	(S) RECE	IVED ON	PRIOR TO RECEIPT YORN HICE YORN ONCONFORMANT YORN FROM SAMPLE BOTTLE US
	to Va	ich de	any		1	45	4	DATE A	ND TIME 1	TAKEN F	ROM SAMPLE BOTTLE YES, by

		Sampl	
	School	e	
	Abbrevia	Numb	
School Name	tion	er	Description
HICKMAN HIGH SCHOOL	HHS	58	Room 208 - Classroom Faucet North
HICKMAN HIGH SCHOOL	HHS	60	Room 208 - Classroom Faucet South
HICKMAN HIGH SCHOOL	HHS	65	Room 212 - Classrom Faucet West
HICKMAN HIGH SCHOOL	HHS	66	Room 212 - Classroom Faucet Teacher Desk
HICKMAN HIGH SCHOOL	HHS	68	Room 213 - Classroom Faucet Teacher Desk
HICKMAN HIGH SCHOOL	HHS	73	Room 214 - Office Faucet
HICKMAN HIGH SCHOOL	HHS	76	Room 220 - Classroom Faucet North
HICKMAN HIGH SCHOOL	HHS	78	Room 220 - Office Faucet
HICKMAN HIGH SCHOOL	HHS	84	Room 50 - Classroom Faucet
HICKMAN HIGH SCHOOL	HHS	90	Room 117 - Classroom Faucet North
HICKMAN HIGH SCHOOL	HHS	92	Room 117 - Classroom Faucet South
HICKMAN HIGH SCHOOL	HHS	99	Room 112- Classroom Faucet Center
HICKMAN HIGH SCHOOL	HHS	102	Room 112- Classroom Faucet Workbench
HICKMAN HIGH SCHOOL	HHS	103	Room 110 - Classroom Faucet
HICKMAN HIGH SCHOOL	HHS	104	Room 109- Office Faucet
FIELD ELEMENTARY SCHOOL 1158	FLD	19	Room 301 - Classroom Faucet
West Middle School	WMS	20	Room 135 - Elecric Water Cooler
West Middle School	WMS	56	Room 134 Orchestra - Classroom Faucet
ELIOT BATTLE ELEMENTARY SCHOOL	EBES	1	Kitchen Faucet Room 124
ELIOT BATTLE ELEMENTARY SCHOOL	EBES	51	Classroom Faucet 339
WEST BOULEVARD ELEMENTARY	WBE	22	Room 203 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	14	Room 138 - Drinking Water Fountain
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	19	Room 212 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	21	Room 215 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	24	Room 213 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	26	Room 220 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	28	Main Hallway - Electric Water Cooler
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	29	Room 106 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	30	Room 100F Nurse Office Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	31	Room 100F Nurse Bathroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	32	Work Room 100C Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	33	Work Room 100 C Bathroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	34	Hallway Room 100F - Electric Water Cooler
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	35	Room 302 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	36	Room 301 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	37	Room 304 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	38	Room 308 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	39	Room 309 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	40	Room 310 - Classroom Faucet
ROCK BRIDGE ELEMENTARY SCHOOL	RBE	41	Room 311 - Classroom Faucet
		1	

03/31/22

January 6, 2022

Mr. Michael Travis Corporate Director of Quality Assurance Pace Analytical Services, LLC – Peoria, Illinois (Lab #870) 2231 West Altorfer Drive Peoria, IL 61615-1807

Dear Mr. Travis:

The Missouri Department of Natural Resources has received your notification that PDC Laboratories, LLC was purchased by Pace Analytical Services, LLC effective December 13, 2021 and that the new laboratory name is Pace Analytical Services, LLC –Peoria, Illinois. The Department has also received a copy of the new Environmental Laboratory Accreditation granted by the State of Illinois with your new laboratory name. Therefore, the Department hereby reciprocally certifies Pace Analytical Services, LLC – Peoria, Illinois under the provisions of the Missouri Safe Drinking Water Regulations to perform chemical analyses for public water systems in the State of Missouri.

Enclosed please find a certificate of approval and a certified parameter list for your laboratory. The certified parameter list references the parameters and methods of analysis that the Department has approved. Your certification will expire on June 30, 2022, and is contingent upon no changes of the approved methods or equipment and maintenance of certification from the primary certification authority.

Thank you for your efforts to comply with Missouri's laboratory certification requirements. Should there be any changes to your Illinois certification status, please notify this office within 30 days. Direct any notifications or inquiries related to the approval to Lauren Ferland of my staff, who may be reached at P.O. Box 176, Jefferson City, MO 65102, or by telephone at 573-526-0135.

Sincerely,

WATER PROTECTION PROGRAM

David J/Lamb

Public Drinking Water Branch Chief

DJL/lf

Enclosures

c: Mr. Richard Kirsch, Environmental Services Program



MISSOURI DEPARTMENT OF NATURAL RESOURCES

DRINKING WATER LABORATORY

CERTIFIED PARAMETER LIST

This is to certify that

Pace Analytical Services, LLC - Peoria, Illinois

located at

2231 West Altorfer Drive, Peoria, Illinois 61615-1807

has been approved to perform the indicated procedures on drinking water under the Missouri Public Drinking Water Regulations (10 CSR 60-5.020). Specific method numbers or references are included in parenthesis when appropriate.

INORGANIC

SM 4500F-C

Fluoride

SM 4500NO3-F

Nitrate, Nitrite

EPA 200.7

Barium, Beryllium, Cadmium,

Chromium, Copper, Nickel

EPA 200.8

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Thallium

EPA 245.1

Mercury

EPA 300.0

Fluoride, Nitrate, Nitrite

EPA 335.4

Total cyanide

EPA 353.2

Nitrate, Nitrite, Total Nitrate and Nitrite

ORGANIC

EPA 504.1

Dibromochloropropane (DBCP), Ethylene dibromide (EDB)

EPA 515.3

2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4,5-TP (Silvex)

EPA 524.2

Benzene, Carbon tetrachloride, Monochlorobenzene, o-Dichlorobenzene, para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1-2-Dichloroethylene, trans-1-2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, Toluene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Xylenes (total), Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, Total THMs

EPA 525.2

Alachlor, Atrazine, Chlordane, Di(2-ethylhexyl)adipate, Di(2-ethylhexl)phthalate, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Simazine, Toxaphene, PCBs (as Arochlors, qualitative, screening)

EPA 531.1

Carbofuran, Oxamyl (Vydate)

EPA 547

Glyphosate

EPA 548.1

Endothall

EPA 549.2

Diquat

EPA 550

Benzo(a)pyrene

EPA 552.2

Dibromoacetic acid, Dichloroacetic acid, Monobromoacetic acid, Monochloroacetic acid, Trichloroacetic acid

Pace Analytical Services, LLC - Peoria, Illinois

Expiration Date: June 30, 2022
Missouri Certificate No.: 870
Original Certifying State: Illinois

State of Missouri Department of Natural Resources

Certificate of Approval for Chemical Laboratory Service

This is to certify that

Pace Analytical Services, LLC – Peoria, Illinois

is hereby approved to perform the analysis of drinking water as specified on the Certified Parameter List, which must accompany this certificate to be valid.

Certification Number	870	end for -l
Date Issued	January 6, 2022	Laboratory Certification Authority, Public Drinking Water Branch Missouri Department of Natural Resources
Expiration Date	June 30, 2022	Rola Kinel Certification Program Manager, Environmental Services Program

Missouri Department of Natural Resources