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

DATE: JANUARY 6, 2022

FACILITY NAME: COLUMBIA AREA CAREER CENTER

A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY

38

2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS

100.0%

1. COPPER ACTION LIMIT = 1,300 UG/

100.0%

3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS

1. 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, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

August 25, 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 **40** sample(s) the laboratory received on **8/2/21 12:40 pm** and logged in under work order **EH00256**. 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, Inc.

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, Inc. 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 lgrant@pdclab.com.

Sincerely,

Erin Lane

Project Manager





SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

	Work Order EH00256
YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
NO	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
NO	COC & labels match
YES	Sample labels are legible
NO	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

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 Sample:
 EH00256-01
 Sampled:
 07/29/21 08:40

 Name:
 1. Room 152
 Received:
 08/02/21 12:40

Alias: CACC-152-CF-1 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 360 1300 08/10/21 15:16 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead 7.9 15 08/10/21 15:16 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-02
 Sampled:
 07/29/21 08:40

 Name:
 2. Room 157
 Received:
 08/02/21 12:40

Alias: CACC-157-CF-2 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Method Analyst <u>Total Metals - PIA</u> 2600 **1300 Copper ug/L 08/11/21 09:26 KMC EPA 200.8 REV 5.4 Lead 920 **15 08/10/21 15:17 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-03
 Sampled:
 07/29/21 08:45

 Name:
 3. Room 161
 Received:
 08/02/21 12:40

Alias: CACC-161-CF-3 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 560 1300 08/10/21 15:19 KMC EPA 200.8 REV 5.4 ug/L Lead 11 15 08/10/21 15:19 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-04
 Sampled:
 07/29/21 08:45

 Name:
 4. Room 162
 Received:
 08/02/21 12:40

Alias: CACC-162-CF-4 Matrix: Drinking Water - Regular Sample

Qualifier MCL Analyst Method Result Unit **Parameter** Analyzed **Total Metals - PIA** Copper 400 ug/L 1300 08/10/21 15:20 **KMC** EPA 200.8 REV 5.4 Lead 2.7 ug/L 15 08/10/21 15:20 KMC EPA 200.8 REV 5.4



 Sample:
 EH00256-05
 Sampled:
 07/29/21 08:50

 Name:
 5. Room 163
 Received:
 08/02/21 12:40

Alias: CACC-163-CF-5 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 230 1300 08/10/21 15:22 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead < 1.0 15 08/10/21 15:22 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-06
 Sampled:
 07/29/21 08:50

 Name:
 6. Hall by 164
 Received:
 08/02/21 12:40

Alias: CACC-H164-EWC-1 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Method Analyst <u>Total Metals - PIA</u> 1300 Copper 260 ug/L 08/10/21 15:23 KMC EPA 200.8 REV 5.4 Lead < 1.0 15 08/10/21 15:23 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-07
 Sampled:
 07/29/21 09:00

 Name:
 7. Room 164
 Received:
 08/02/21 12:40

Alias: CACC-164-CF-6 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 160 1300 08/10/21 15:25 KMC EPA 200.8 REV 5.4 ug/L Lead 4.0 15 08/10/21 15:25 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-08
 Sampled:
 07/29/21 09:00

 Name:
 8. Room 164
 Received:
 08/02/21 12:40

Alias: CACC-164-CF-7 Matrix: Drinking Water - Regular Sample

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 23 ug/L 1300 08/10/21 15:33 **KMC** EPA 200.8 REV 5.4 Lead 5.7 ug/L 15 08/10/21 15:33 KMC EPA 200.8 REV 5.4

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 Sample:
 EH00256-09
 Sampled:
 07/29/21 09:00

 Name:
 9. Room 164
 Received:
 08/02/21 12:40

Alias: CACC-164-CF-8 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 46 1300 08/10/21 15:34 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead 33 **15 08/10/21 15:34 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-10
 Sampled:
 07/29/21 09:00

 Name:
 10. Room 164
 Received:
 08/02/21 12:40

Alias: CACC-164-CF-9 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Method Analyzed Analyst <u>Total Metals - PIA</u> 390 Copper ug/L 1300 08/10/21 15:36 KMC EPA 200.8 REV 5.4 Lead 45 **15 08/10/21 15:36 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-11
 Sampled:
 07/29/21 09:00

 Name:
 11. Room 164
 Received:
 08/02/21 12:40

Alias: CACC-164B-CF-10 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 710 ug/L 1300 08/10/21 15:37 KMC EPA 200.8 REV 5.4 Lead 15 15 08/10/21 15:37 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-12
 Sampled:
 07/29/21 09:05

 Name:
 12. Hall by 171
 Received:
 08/02/21 12:40

Alias: CACC-H171-EWC-2 Matrix: Drinking Water - Regular Sample

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 310 ug/L 1300 08/10/21 15:39 **KMC** EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 08/10/21 15:39 KMC EPA 200.8 REV 5.4

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 Sample:
 EH00256-13
 Sampled:
 07/29/21 09:10

 Name:
 13. Room 172
 Received:
 08/02/21 12:40

Alias: CACC-172-CF-11 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 280 1300 08/10/21 15:40 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead 5.4 15 08/10/21 15:40 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-14
 Sampled:
 07/29/21 09:10

 Name:
 14. Room 172
 Received:
 08/02/21 12:40

Alias: CACC-172-CF-12 Matrix: Drinking Water - Regular Sample

Analyst **Parameter** Result Unit Qualifier MCL Method Analyzed <u>Total Metals - PIA</u> 1300 Copper 240 ug/L 08/10/21 15:42 KMC EPA 200.8 REV 5.4 Lead 8.5 15 08/10/21 15:42 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-15
 Sampled:
 07/29/21 09:10

 Name:
 15. Room 171
 Received:
 08/02/21 12:40

Alias: CACC-171-CF-13 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 240 ug/L 1300 08/10/21 15:44 KMC EPA 200.8 REV 5.4 Lead 1.3 15 08/10/21 15:44 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-16
 Sampled:
 07/29/21 09:10

 Name:
 16. Room 170A
 Received:
 08/02/21 12:40

Alias: CACC-170A-CF-14 Matrix: Drinking Water - Regular Sample

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 250 ug/L 1300 08/10/21 15:51 **KMC** EPA 200.8 REV 5.4 Lead 7.5 ug/L 15 08/10/21 15:51 KMC EPA 200.8 REV 5.4

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 Sample:
 EH00256-17
 Sampled:
 07/29/21 09:15

 Name:
 17. Room 175
 Received:
 08/02/21 12:40

Alias: CACC-175-CF-15 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 790 1300 08/10/21 15:53 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead 6.5 15 08/10/21 15:53 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-18
 Sampled:
 07/29/21 09:15

 Name:
 18. Room 176
 Received:
 08/02/21 12:40

Alias: CACC-176-CF-16 Matrix: Drinking Water - Regular Sample

Analyst **Parameter** Result Unit Qualifier MCL Method Analyzed <u>Total Metals - PIA</u> 1300 Copper 460 ug/L 08/10/21 15:55 KMC EPA 200.8 REV 5.4 Lead 6.9 15 08/10/21 15:55 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-19
 Sampled:
 07/29/21 08:20

 Name:
 19. Room 121
 Received:
 08/02/21 12:40

Alias: CACC-121-CF-17 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 130 1300 08/10/21 15:56 KMC EPA 200.8 REV 5.4 ug/L Lead 6.5 15 08/10/21 15:56 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-20
 Sampled:
 07/29/21 08:15

 Name:
 20. Hall by 122
 Received:
 08/02/21 12:40

Alias: CACC-H122-EWC-3 Matrix: Drinking Water - Regular Sample

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 270 ug/L 1300 08/10/21 15:58 **KMC** EPA 200.8 REV 5.4 Lead 4.1 ug/L 15 08/10/21 15:58 KMC EPA 200.8 REV 5.4

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 Sample:
 EH00256-21
 Sampled:
 07/29/21 08:20

 Name:
 21. Room 120
 Received:
 08/02/21 12:40

Alias: CACC-120-CF-18 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 180 1300 08/10/21 15:59 EPA 200.8 REV 5.4 Copper ug/L **KMC** Lead 4.2 15 08/10/21 15:59 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-22
 Sampled:
 07/29/21 08:15

 Name:
 22. Room 118
 Received:
 08/02/21 12:40

Alias: CACC-118-CF-19 Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Method Analyzed Analyst <u>Total Metals - PIA</u> 1300 Copper 180 ug/L 08/10/21 16:01 KMC EPA 200.8 REV 5.4 Lead 5.0 15 08/10/21 16:01 KMC EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-23
 Sampled:
 07/29/21 08:12

 Name:
 23. East Commons
 Received:
 08/02/21 12:40

Alias: CACC-__-EWC-4 Matrix: Drinking Water - Regular Sample

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 400 1300 08/10/21 16:02 KMC EPA 200.8 REV 5.4 ug/L Lead 5.3 15 08/10/21 16:02 **KMC** EPA 200.8 REV 5.4 ug/L

 Sample:
 EH00256-24
 Sampled:
 07/29/21 08:00

 Name:
 24. Room 105
 Received:
 08/02/21 12:40

Alias: CACC-105-CF-20 Matrix: Drinking Water - Regular Sample

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 210 ug/L 1300 08/10/21 16:10 **KMC** EPA 200.8 REV 5.4 Lead 8.7 ug/L 15 08/10/21 16:10 KMC EPA 200.8 REV 5.4



Alias:

ANALYTICAL RESULTS

Sampled: 07/29/21 08:05 Sample: EH00256-25 25. Hall by 107 Received: 08/02/21 12:40 Name:

CACC-H107-EWC-5 Alias: Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 1300 08/10/21 16:12 EPA 200.8 REV 5.4 Copper 210 ug/L **KMC** Lead 1.4 15 08/10/21 16:12 **KMC** EPA 200.8 REV 5.4 ug/L Sample: EH00256-27 Sampled: 07/29/21 08:30 Name: 27. Room 127 Received: 08/02/21 12:40 Alias: CACC-127-EWC-6 Matrix: Drinking Water - Regular Sample **Parameter** Result Unit Qualifier MCL Method Analyzed Analyst

<u>Total Metals - PIA</u> 210 Copper ug/L 1300 08/10/21 16:13 KMC EPA 200.8 REV 5.4 Lead 36 **15 08/10/21 16:13 KMC EPA 200.8 REV 5.4 ug/L

Sampled: 07/29/21 08:35 Sample: EH00256-29 Name: 29. Room 133 Received: 08/02/21 12:40

CACC-133-CF-23 Drinking Water - Regular Sample Alias: Matrix:

Qualifier MCL **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 430 1300 08/10/21 16:15 KMC EPA 200.8 REV 5.4 ug/L **15 Lead 38 08/10/21 16:15 **KMC** EPA 200.8 REV 5.4 ug/L

Sampled: 07/29/21 08:35 Sample: EH00256-30 Name: 30. Hall by 140 Received: 08/02/21 12:40 CACC-H140-EWC-7

Drinking Water - Regular Sample Matrix:

Qualifier MCL Result Unit Analyst Method **Parameter** Analyzed **Total Metals - PIA** Copper 230 ug/L 1300 08/10/21 16:16 **KMC** EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 08/10/21 16:16 KMC EPA 200.8 REV 5.4

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Sample: EH00256-31

31. Construction Building Name:

CACC-__-EWC-8 Alias:

Sampled: 07/29/21 09:35

Received: 08/02/21 12:40

Drinking Water - Regular Sample Matrix:

Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
780	ug/L		1300	08/10/21 16:18	KMC	EPA 200.8 REV 5.4
4.6	ug/L		15	08/10/21 16:18	KMC	EPA 200.8 REV 5.4
				Sampled:	07/29/21 (09:35
				Received:	08/02/21 1	12:40
	780	780 ug/L	780 ug/L	780 ug/L 1300	780 ug/L 1300 08/10/21 16:18 4.6 ug/L 15 08/10/21 16:18 Sampled: Received:	780 ug/L 1300 08/10/21 16:18 KMC

Alias: CACC-__-CF-24 Matrix:

Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	1700	ug/L		**1300	08/11/21 09:27	KMC	EPA 200.8 REV 5.4
Lead	1.5	ug/L		15	08/10/21 16:20	KMC	EPA 200.8 REV 5.4

Sampled: 07/29/21 09:35 Sample: EH00256-33

Name: 33. Tech. Training Building **Received:** 08/02/21 12:40

CACC-__-EWC-9 Drinking Water - Regular Sample Alias: Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	650	ug/L	Q3	1300	08/10/21 16:21	KMC	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/10/21 16:21	KMC	EPA 200.8 REV 5.4

Sample: EH00256-34 Sampled: 07/29/21 09:20 Name:

34. Hort. Cul. Building Received: 08/02/21 12:40

Alias: CACC-__-EWC-10 Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	150	ug/L		1300	08/10/21 16:29	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 16:29	KMC	EPA 200.8 REV 5.4



Sample: EH00256-35

Sampled: 07/29/21 09:20 35. Hort. Cul. Building Received: 08/02/21 12:40 Name:

CACC-__-CF-25 Alias: Matrix: Drinking Water - Regular Sample

Parameter Result Unit Qualifier MCL Analyzed Analyst Method Total Metals - PIA 1300 08/10/21 16:30 EPA 200.8 REV 5.4 Copper 180 ug/L **KMC** Lead 1.2 15 08/10/21 16:30 **KMC** EPA 200.8 REV 5.4 ug/L

Sample: EH00256-36 Sampled: 07/29/21 09:30 Name: 36. Green House Received: 08/02/21 12:40

Alias: CACC- -CF-26 Matrix: Drinking Water - Regular Sample

Result Unit Qualifier MCL Method **Parameter** Analyzed Analyst Total Metals - PIA 1300 Copper 190 ug/L 08/10/21 16:32 KMC EPA 200.8 REV 5.4 Lead 3.0 15 08/10/21 16:32 KMC EPA 200.8 REV 5.4 ug/L

Sampled: 07/29/21 09:30 Sample: EH00256-37 Name: 37. Green House Received: 08/02/21 12:40

CACC-__-CF-27 Drinking Water - Regular Sample Alias: Matrix:

MCL Qualifier **Parameter** Result Unit Analyzed Analyst Method Total Metals - PIA Copper 440 1300 08/10/21 16:34 KMC EPA 200.8 REV 5.4 ug/L **15 Lead 40 08/10/21 16:34 **KMC** EPA 200.8 REV 5.4 ug/L

Sampled: 07/29/21 08:30 Sample: EH00256-38 Name: 38. Hall by Room 130 - Electric Water Cooler Received: 08/02/21 12:40

CACC-130-EWC-11 Drinking Water - Regular Sample Alias: Matrix:

Qualifier MCL Unit Analyst Method **Parameter** Result Analyzed **Total Metals - PIA** Copper 280 ug/L 1300 08/10/21 16:35 **KMC** EPA 200.8 REV 5.4 Lead 2.5 ug/L 15 08/10/21 16:35 KMC EPA 200.8 REV 5.4



Sample: EH00256-39

Sampled: 07/29/21 00:00

26. Room 108 - Classroom Faucet Name: Matrix: Drinking Water - Regular Sample

Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	6500	ug/L		**1300	08/11/21 09:29	KMC	EPA 200.8 REV 5.4
Lead	270	ug/L		**15	08/10/21 16:37	KMC	EPA 200.8 REV 5.4

Sample: EH00256-40

Sampled: 07/29/21 00:00 28. Room 179 - Classroom Faucet Received: 08/02/21 12:40 Name:

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	260	ug/L		1300	08/10/21 16:38	KMC	EPA 200.8 REV 5.4
Lead	8.4	ug/L		15	08/10/21 16:38	KMC	EPA 200.8 REV 5.4

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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

Qualifiers

Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.

Certified by: Erin Lane, Project Manager





OLIALTDAY 2010 DEVE

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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

	ALL HIGHLIGHTE	D AREAS MUS	T BE COMP	LETED BY	CLIENT (PLE	ASE PRINT)						
CLIENT	PROJECT NUMBER		ROJECT LOCA		PURCHASE	ORDER#	(3)	ANALYSIS	REQUES	TED		(FOR LAB USE ONLY)
Engineering Surveys & Services	L14571	Colu	umbia,	MO								1 CIL MOCILIUIT
ADDRESS	PHONE NUMBER	40	E-MAIL		DATE SI	and the same						LOGIN # CT CO CO 9
1113 Fay Street	573-449-26	46 jlehm	en@ess-i	inc.com	7-16-	21	0					LOGGED BY:
CITY STATE	SAMPLER (PLEASE PRINT)	•			MATRIX		8					CLIENT:
Columbia, MO	Josh Lehmen				WW- WASTEWATI DW- DRINKING WA GW- GROUND WA	ER ATER TER	77					PROJECT:
CONTACT PERSON	SAMPLER'S SIGNATURE				WWSL-SLUDGE NAS-NON AQUEC LCHT-LEACHATE	ous solid	2					PROJ. MGR.:
Josh Lehmen	SIGNATURE				OIL-OIL SO-SOIL SOL-SOLID		1/2					CUSTODY SEAL #:
SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE TIME COLLECTED COLLEC		COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	2					REMARKS
Columbia Area Coreer Conter	1/29/4	X					38					
										T		
										1		
										1		
										1		
CHEMICAL PRESERVATION CODES: I - HCL 2 - H2SO4 3 -	1NO3 4 - NAOH 5	- NA2S2O3	6 – UNPRI	ESERVED	7 – OTHER							
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMA (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)	L RUSH	DATE RES		6								ceed with analysis, even though it may
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE					not meet all s Policy and the	ample confo data will be	rmance re qualified.	equirements Qualified d	s as define lata may <u>N</u>	d in the OT be	e receit accepta	ving facility's Sample Acceptance table to report to all regulatory authorities.
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE					PROCEED W	ITH ANALYS	IS AND Q	UALIFY RE	SULTS: (II	NITIALS	5)	
	sly2)	CEIVED BY: (SIC	GNATURE)			DATE	7-30-	21 (8		ОММЕ	NTS: (FOR LAB USE ONLY)
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Spannet 17:4		-C		d		TIME	240	REF	PORT IS N	EEDED		ROM SAMPLE BOTTLE
												Page 16 of 17

DACE

21212021

Location:	Columbia Area Career Center
Sample Date:	7/29/2021
Sample Time:	Various
Sampled By:	Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
1	CACC-152-CF-1	Room 152	Yes
2	CACC-157-CF-2	Room 157	Yes
3	CACC-161-CF-3	Room 161	Yes
4	CACC-162-CF-4	Room 162	Yes
5	CACC-163-CF-5	Room 163	Yes
6	CACC-H164-EWC-1	Hall by 164	Yes
7	CACC-164-CF-6	Room 164	Yes
8	CACC-164-CF-7	Room 164	Yes
9	CACC-164-CF-8	Room 164	Yes
10	CACC-164-CF-9	Room 164	Yes
11	CACC-164B-CF-10	Room 164	Yes
12	CACC-H171-EWC-2	Hall by 171	Yes
13	CACC-172-CF-11	Room 172	Yes
14	CACC-172-CF-12	Room 172	Yes
15	CACC-171-CF-13	Room 171	Yes
16	CACC-170A-CF-14	Room 170A	Yes
17	CACC-175-CF-15	Room 175	Yes
18	CACC-176-CF-16	Room 176	Yes
19	CACC-121-CF-17	Room 121	Yes
20	CACC-H122-EWC-3	Hall by 122	Yes
21	CACC-120-CF-18	Room 120	Yes
22	CACC-118-CF-19	Room 118	Yes
23	CACCEWC-4	East Commons	Yes
24	CACC-105-CF-20	Room 105	Yes
25	CACC-H107-EWC-5	Hall by 107	Yes
26	CACC-108-CF-21	Room 108	Yes
27	CACC-127-EWC-6	Room 127	Yes
28	CACC-179-CF-22	Room 179	Yes
29	CACC-133-CF-23	Room 133	Yes
30	CACC-H140-EWC-7	Hall by 140	Yes
31	CACC-CON-EWC-8	Construction Building	Yes
32	CACC-CON-CF-24	Construction Building	Yes
33	CACC-TECH-EWC-9	Tech. Training Building	Yes
34	CACC-HORT-EWC-10	Hort. Cul. Building	Yes
35	CACC-HORT-CF-25	Hort. Cul. Building	Yes
36	CACC-GRH-CF-26	Green House	Yes
37	CACC-GRH-CF-27	Green House	Yes
38	CACC-130 -EWC-11	Hall by Room 130 - Electric Water Cooler	Yes
39	CACC-		
40	CACC-		



"First Flush" Resampling

ANALYTICAL RESULTS

Sample: EL04058-18 **Name:** 2. Room 157 **Alias:** CACC-157-CF-2

Sampled: 12/15/21 06:34 **Received:** 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	130	ug/L	C	01/06/22 09:26	1	3.0	01/06/22 09:52	KMC	EPA 200.8 REV 5.4
Lead	4.4	ug/L	C	01/06/22 09:26	1	1.0	01/06/22 09:52	KMC	EPA 200.8 REV 5.4

Sample: EL04058-19 **Name:** 9. Room 164 **Alias:** CACC-164-CF-8

Sampled: 12/15/21 06:36 **Received:** 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier P	repared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	270	ug/L	01/0	06/22 09:26	1	3.0	01/06/22 09:54	KMC	EPA 200.8 REV 5.4
Lead	3.8	ug/L	01/0	06/22 09:26	1	1.0	01/06/22 09:54	KMC	EPA 200.8 REV 5.4

Sample: EL04058-20 **Name:** 10. Room 164 **Alias:** CACC-164-CF-9

 Sampled:
 12/15/21 06:38

 Received:
 12/20/21 15:10

 Matrix:
 Drinking Water - Grab

Parameter Result Unit Qualifier Prepared Dilution MRL Analyzed Analyst Method Total Metals - PIA 01/06/22 09:55 01/06/22 09:26 EPA 200.8 REV 5.4 260 3.0 KMC Copper ug/L 1 01/06/22 09:26 1.0 01/06/22 09:55 KMC EPA 200.8 REV 5.4 Lead 9.5 ug/L



Sample: EL04058-21 Name: 27. Room 127 Alias: CACC-127-EWC-6 Sampled: 12/15/21 06:39 Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	110	ug/L	0	01/06/22 09:26	1	3.0	01/06/22 09:57	KMC	EPA 200.8 REV 5.4
Lead	6.3	ug/L	C	01/06/22 09:26	1	1.0	01/06/22 09:57	KMC	EPA 200.8 REV 5.4

Sample: EL04058-22 Name: 29. Room 133 Alias: CACC-133-CF-23 Sampled: 12/15/21 06:01 Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	560	ug/L	0	01/06/22 09:26	1	3.0	01/06/22 09:59	KMC	EPA 200.8 REV 5.4
Lead	9.2	ug/L	C	01/06/22 09:26	1	1.0	01/06/22 09:59	KMC	EPA 200.8 REV 5.4

Sample: EL04058-23

Name: 32. Construction Building CACC-CB-CF-24

Sampled: 12/15/21 06:43 Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	400	ug/L	01	1/06/22 09:26	1	3.0	01/06/22 10:00	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	01	1/06/22 09:26	1	1.0	01/06/22 10:00	KMC	EPA 200.8 REV 5.4

Sample: EL04058-24 Name: 37. Green House Alias: CACC-GH-CF-27 Sampled: 12/15/21 06:45 Received: 12/20/21 15:10 Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	96	ug/L	01/06/22 09:26	1	3.0	01/06/22 10:02	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	01/06/22 09:26	1	1.0	01/06/22 10:02	KMC	EPA 200.8 REV 5.4

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