



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

DATE: APRIL 13, 2022

FACILITY NAME: **OAKLAND MIDDLE SCHOOL**

**A. SAMPLE COLLECTION**

- |  |        |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY  | 54     |
| 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  | 98.1%  |
| 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   | 1 |

**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:

Joshua D. Lehmen, PE



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 **55** sample(s) the laboratory received on **8/2/21 12:40 pm** and logged in under work order **EH00230**. 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](mailto:lgrant@pdclab.com).

Sincerely,

Erin Lane  
Project Manager



**SAMPLE RECEIPT CHECK LIST****Items not applicable will be marked as in compliance**

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Work Order      EH00230

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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
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



**Case Narrative**

ESS Samples #40-56 were not listed on the COC or ESS sampling form however, bottles were received with labels. No information except ESS sample number and times collected were on labels.

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## ANALYTICAL RESULTS

**Sample:** EH00230-01  
**Name:** 1. Room 176  
**Alias:** OMS-176-CF-1

**Sampled:** 07/28/21 07:14  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	270	ug/L		1300	08/10/21 13:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 13:56	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-02  
**Name:** 2. Room 174-1  
**Alias:** OMS-174-CF-2

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	230	ug/L		1300	08/10/21 13:58	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/10/21 13:58	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-03  
**Name:** 3. Room 174-2  
**Alias:** OMS-174-CF-3

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	210	ug/L		1300	08/10/21 13:59	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 13:59	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-04  
**Name:** 4. Room 174-3  
**Alias:** OMS-174-CF-4

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	08/10/21 14:01	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:01	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-05  
**Name:** 5. Room 174-4  
**Alias:** OMS-174-CF-5

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	220	ug/L		1300	08/10/21 14:02	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:02	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-06  
**Name:** 6. Room 174-5  
**Alias:** OMS-174-CF-6

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	220	ug/L		1300	08/10/21 14:12	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	08/10/21 14:12	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-07  
**Name:** 7. Room 174-6  
**Alias:** OMS-174-CF-7

**Sampled:** 07/28/21 07:10  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	190	ug/L		1300	08/10/21 14:13	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:13	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-08  
**Name:** 8. Room 175  
**Alias:** OMS-175-CF-8

**Sampled:** 07/28/21 07:14  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	620	ug/L		1300	08/10/21 14:15	TJJ	EPA 200.8 REV 5.4
Lead	33	ug/L		**15	08/10/21 14:15	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-09  
**Name:** 9. Room 175  
**Alias:** OMS-175-CF-9

**Sampled:** 07/28/21 07:14  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	720	ug/L		1300	08/10/21 14:16	TJJ	EPA 200.8 REV 5.4
Lead	1.6	ug/L		15	08/10/21 14:16	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-10  
**Name:** 10. Room 173  
**Alias:** OMS-173-CF-10

**Sampled:** 07/28/21 07:07  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	08/10/21 14:17	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:17	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-11  
**Name:** 11. Hall by Locker Rooms  
**Alias:** OMS-\_\_-EWC-1

**Sampled:** 07/28/21 07:03  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	290	ug/L		1300	08/10/21 14:19	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:19	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-12  
**Name:** 12. Girls Locker Room  
**Alias:** OMS-\_\_-EWC-2

**Sampled:** 07/28/21 07:00  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	310	ug/L		1300	08/10/21 14:20	TJJ	EPA 200.8 REV 5.4
Lead	24	ug/L		**15	08/10/21 14:20	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-13  
**Name:** 13. Girls Locker Room  
**Alias:** OMS-\_\_-CF-10

**Sampled:** 07/28/21 07:01  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	480	ug/L		1300	08/10/21 14:22	TJJ	EPA 200.8 REV 5.4
Lead	33	ug/L		**15	08/10/21 14:22	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-14  
**Name:** 14. Boys Locker Room  
**Alias:** OMS-\_\_-EWC-3

**Sampled:** 07/28/21 07:43  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	270	ug/L		1300	08/10/21 14:31	TJJ	EPA 200.8 REV 5.4
Lead	15	ug/L		15	08/10/21 14:31	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-15  
**Name:** 15. Boys Locker Room  
**Alias:** OMS-\_\_-CF-11

**Sampled:** 07/28/21 07:43  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	08/10/21 14:33	TJJ	EPA 200.8 REV 5.4
Lead	32	ug/L		**15	08/10/21 14:33	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-16  
**Name:** 16. Kitchen  
**Alias:** OMS-\_\_-KF\_1

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	180	ug/L		1300	08/10/21 14:34	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:34	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-17  
**Name:** 17. Kitchen  
**Alias:** OMS-\_\_-KF\_2

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	210	ug/L		1300	08/10/21 14:36	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:36	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-18  
**Name:** 18. Kitchen  
**Alias:** OMS-\_\_-KF\_3

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	180	ug/L		1300	08/10/21 14:37	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	08/10/21 14:37	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-19  
**Name:** 19. Kitchen  
**Alias:** OMS-\_\_-KF\_4

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	430	ug/L		1300	08/10/21 14:38	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	08/10/21 14:38	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-20  
**Name:** 20. Kitchen  
**Alias:** OMS-\_\_-KF\_5

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	290	ug/L		1300	08/10/21 14:40	TJJ	EPA 200.8 REV 5.4
Lead	5.6	ug/L		15	08/10/21 14:40	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-21  
**Name:** 21. Kitchen  
**Alias:** OMS-\_\_-KF\_6

**Sampled:** 07/28/21 06:50  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	520	ug/L		1300	08/10/21 14:41	TJJ	EPA 200.8 REV 5.4
Lead	4.9	ug/L		15	08/10/21 14:41	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-22  
**Name:** 22. By Cafeteria  
**Alias:** OMS-\_\_-EWC-4

**Sampled:** 07/28/21 06:31  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	79	ug/L		1300	08/10/21 14:51	TJJ	EPA 200.8 REV 5.4
Lead	6.7	ug/L		15	08/10/21 14:51	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-23  
**Name:** 23. Hall by 117  
**Alias:** OMS-H117-EWC-5

**Sampled:** 07/28/21 06:28  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	300	ug/L		1300	08/10/21 14:52	TJJ	EPA 200.8 REV 5.4
Lead	7.6	ug/L		15	08/10/21 14:52	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-24  
**Name:** 24. Room 117  
**Alias:** OMS-117-CF-12

**Sampled:** 07/28/21 06:27  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	120	ug/L		1300	08/10/21 14:54	TJJ	EPA 200.8 REV 5.4
Lead	10	ug/L		15	08/10/21 14:54	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-25  
**Name:** 27. Hall by Boys Restroom  
**Alias:** OMS-\_\_-EWC-6

**Sampled:** 07/28/21 06:13  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	270	ug/L		1300	08/10/21 14:55	TJJ	EPA 200.8 REV 5.4
Lead	1.7	ug/L		15	08/10/21 14:55	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-26  
**Name:** 28. Room 131 - Podium  
**Alias:** OMS-131-CF-15

**Sampled:** 07/28/21 06:11  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	1400	ug/L		**1300	08/10/21 14:57	TJJ	EPA 200.8 REV 5.4
Lead	44	ug/L		**15	08/10/21 14:57	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-27  
**Name:** 29. Room 131 - Wall  
**Alias:** OMS-131-CF-16

**Sampled:** 07/28/21 06:11  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	570	ug/L		1300	08/10/21 14:58	TJJ	EPA 200.8 REV 5.4
Lead	38	ug/L		**15	08/10/21 14:58	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-28  
**Name:** 30. Room 135 - Podium  
**Alias:** OMS-135-CF-17

**Sampled:** 07/28/21 06:04  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	08/10/21 15:00	TJJ	EPA 200.8 REV 5.4
Lead	12	ug/L		15	08/10/21 15:00	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-29  
**Name:** 31. Room 130 - Podium  
**Alias:** OMS-130-CF-18

**Sampled:** 07/28/21 06:00  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	160	ug/L		1300	08/10/21 15:01	TJJ	EPA 200.8 REV 5.4
Lead	8.2	ug/L		15	08/10/21 15:01	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-30  
**Name:** 32. Room 130 - East  
**Alias:** OMS-130-CF-19

**Sampled:** 07/28/21 06:00  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	210	ug/L		1300	08/10/21 15:10	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	08/10/21 15:10	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-31  
**Name:** 33. Room 130 - West  
**Alias:** OMS-130-CF-20

**Sampled:** 07/28/21 06:00  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	08/10/21 15:12	TJJ	EPA 200.8 REV 5.4
Lead	16	ug/L		**15	08/10/21 15:12	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-32  
**Name:** 34. Room 132  
**Alias:** OMS-132-CF-21

**Sampled:** 07/28/21 05:56  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	990	ug/L		1300	08/10/21 15:13	TJJ	EPA 200.8 REV 5.4
Lead	330	ug/L		**15	08/10/21 15:13	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-33  
**Name:** 35. Room 134 - Wall  
**Alias:** OMS-134-CF-22

**Sampled:** 07/28/21 05:52  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	210	ug/L		1300	08/10/21 15:15	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:15	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-34  
**Name:** 36. Room 134 - Podium  
**Alias:** OMS-134-CF-23

**Sampled:** 07/28/21 05:54  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	330	ug/L		1300	08/10/21 15:16	TJJ	EPA 200.8 REV 5.4
Lead	7.0	ug/L		15	08/10/21 15:16	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-35  
**Name:** 37. Nurses Office  
**Alias:** OMS-\_\_-NSF-1

**Sampled:** 07/28/21 05:39  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	08/10/21 15:18	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:18	TJJ	EPA 200.8 REV 5.4

**Sample:** EH00230-36  
**Name:** 38. Nurses Office  
**Alias:** OMS-\_\_-NSF-2

**Sampled:** 07/28/21 05:37  
**Received:** 08/02/21 12:40  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	220	ug/L		1300	08/10/21 15:19	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:19	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

Sample: EH00230-37  
Name: 39. Room 137  
Alias: OMS-137-TLF-1

Sampled: 07/28/21 07:51  
Received: 08/02/21 12:40  
Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	190	ug/L		1300	08/10/21 15:21	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:21	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-38  
Name: 40.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:39  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	110	ug/L		1300	08/10/21 15:30	TJJ	EPA 200.8 REV 5.4
Lead	5.1	ug/L		15	08/10/21 15:30	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-39  
Name: 41.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:39  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	190	ug/L		1300	08/10/21 15:31	TJJ	EPA 200.8 REV 5.4
Lead	13	ug/L		15	08/10/21 15:31	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-40  
Name: 42.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:38  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	110	ug/L		1300	08/11/21 15:09	KMC	EPA 200.8 REV 5.4
Lead	25	ug/L		**15	08/11/21 15:09	KMC	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

Sample: EH00230-41  
Name: 43.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:38  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	670	ug/L		1300	08/10/21 15:33	TJJ	EPA 200.8 REV 5.4
Lead	11	ug/L		15	08/10/21 15:33	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-42  
Name: 44.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:36  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	08/10/21 15:34	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:34	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-43  
Name: 45.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:35  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	290	ug/L		1300	08/10/21 15:36	TJJ	EPA 200.8 REV 5.4
Lead	3.1	ug/L		15	08/10/21 15:36	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-44  
Name: 46.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:30  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	270	ug/L		1300	08/10/21 15:37	TJJ	EPA 200.8 REV 5.4
Lead	2.5	ug/L		15	08/10/21 15:37	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

Sample: EH00230-45  
Name: 47.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:30  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	350	ug/L		1300	08/10/21 15:39	TJJ	EPA 200.8 REV 5.4
Lead	440	ug/L		**15	08/10/21 15:39	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-46  
Name: 48.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:32  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	79	ug/L		1300	08/10/21 15:40	TJJ	EPA 200.8 REV 5.4
Lead	4.7	ug/L		15	08/10/21 15:40	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-47  
Name: 49.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:33  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	08/10/21 15:42	TJJ	EPA 200.8 REV 5.4
Lead	6.1	ug/L		15	08/10/21 15:42	TJJ	EPA 200.8 REV 5.4

Sample: EH00230-48  
Name: 50.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:25  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	390	ug/L		1300	08/10/21 15:43	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 15:43	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

Sample: EH00230-49  
Name: 51.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:21  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	280	ug/L		1300	08/10/21 14:06	KMC	EPA 200.8 REV 5.4
Lead	11	ug/L		15	08/10/21 14:06	KMC	EPA 200.8 REV 5.4

Sample: EH00230-50  
Name: 52.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 07:21  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	160	ug/L		1300	08/10/21 14:07	KMC	EPA 200.8 REV 5.4
Lead	8.6	ug/L		15	08/10/21 14:07	KMC	EPA 200.8 REV 5.4

Sample: EH00230-51  
Name: 53.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 06:04  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	200	ug/L		1300	08/10/21 14:09	KMC	EPA 200.8 REV 5.4
Lead	33	ug/L		**15	08/10/21 14:09	KMC	EPA 200.8 REV 5.4

Sample: EH00230-52  
Name: 54.  
Matrix: Drinking Water - Regular Sample

Sampled: 07/28/21 06:06  
Received: 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	1200	ug/L	Q4	1300	08/10/21 17:25	KMC	EPA 200.8 REV 5.4
Lead	270	ug/L		**15	08/10/21 14:11	KMC	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EH00230-53  
**Name:** 55.  
**Matrix:** Drinking Water - Regular Sample

**Sampled:** 07/28/21 06:17  
**Received:** 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	320	ug/L		1300	08/10/21 14:18	KMC	EPA 200.8 REV 5.4
Lead	74	ug/L		**15	08/10/21 14:18	KMC	EPA 200.8 REV 5.4

**Sample:** EH00230-54  
**Name:** 56.  
**Matrix:** Drinking Water - Regular Sample

**Sampled:** 07/28/21 06:17  
**Received:** 08/02/21 12:40

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	210	ug/L		1300	08/10/21 14:20	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	08/10/21 14:20	KMC	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

### Qualifiers

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Erin Lane, Project Manager





CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

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

[illegible]

Location:	Oakland Middle School
Sample Date:	7/28/2021
Sample Time:	Various
Sampled By:	Kyle Vidusic & Josh Lehmen

Sample No.	Coding System	Description	Sample Collected
1	OMS-176-CF-1	Room 176 - Classroom Faucet	Yes
2	OMS-174-CF-2	Room 174-1 - Classroom Faucet Clockwise	Yes
3	OMS-174-CF-3	Room 174-2 - Classroom Faucet	Yes
4	OMS-174-CF-4	Room 174-3 - Classroom Faucet	Yes
5	OMS-174-CF-5	Room 174-4 - Classroom Faucet	Yes
6	OMS-174-CF-6	Room 174-5 - Classroom Faucet	Yes
7	OMS-174-CF-7	Room 174-6 - Classroom Faucet	Yes
8	OMS-175-CF-8	Room 175 - Classroom Faucet	Yes
9	OMS-175-CF-9	Room 175 - Classroom Faucet	Yes
10	OMS-173-CF-10	Room 173 - Classroom Faucet	Yes
11	OMS-HLR-EWC-1	Hall By Lockerooms - Electric Water Cooler	Yes
12	OMS-GLR-EWC-2	Girls Lockerroom - Electric Water Cooler	Yes
13	OMS-GLR-CF-10	Girls Lockerroom - Classroom Faucet	Yes
14	OMS-BLR-EWC-3	Boys Lockerroom - Electric Water Cooler	Yes
15	OMS-BLR-CF-11	Boys Lockerroom - Classroom Faucet	Yes
16	OMS-KF_1	Kitchen Sink	Yes
17	OMS-KF_2	Kitchen Sink	Yes
18	OMS-KF_3	Kitchen Sink	Yes
19	OMS-KF_4	Kitchen Sink	Yes
20	OMS-KF_5	Kitchen Sink	Yes
21	OMS-KF_6	Kitchen Sink	Yes
22	OMS-CAF-EWC-4	By Cafeteria - Electric Water Cooler	Yes
23	OMS-H117-EWC-5	Hall by 117 - Electric Water Cooler	Yes
24	OMS-117-CF-12	Room 117 - Classroom Faucet	Yes
25	OMS-125-CF-13	Room 125 - SINK REMOVED	No
26	OMS-125-CF-14	Room 125 - SINK REMOVED	No
27	OMS-__-EWC-6	Hall by Boys Restroom - Electric Water Cooler	Yes
28	OMS-131-CF-15	Room 131 - Podium - Classroom Faucet	Yes
29	OMS-131-CF-16	Room 131 - Wall - Classroom Faucet	Yes
30	OMS-135-CF-17	Room 135 - Podium - Classroom Faucet	Yes
31	OMS-130-CF-18	Room 130 - Podium - Classroom Faucet	Yes
32	OMS-130-CF-19	Room 130 - East - Classroom Faucet	Yes
33	OMS-130-CF-20	Room 130 - West - Classroom Faucet	Yes
34	OMS-132-CF-21	Room 132 - Classroom Faucet	Yes
35	OMS-134-CF-22	Room 134 - Wall - Classroom Faucet	Yes
36	OMS-134-CF-23	Room 134 - Podium - Classroom Faucet	Yes
37	OMS-NSF-1	Nurses Office Sink	Yes
38	OMS-NSF-2	Nurses Office Sink	Yes
39	OMS-137-TLF-1	Room 137	Yes
40	OMS-149-EWC-7	Room 149 - Hall - Electric Water Cooler	Yes

41	OMS-148-CF-24	Room 148 - Classroom Faucet	Yes
42	OMS-147-CF-25	Room 147 - Classroom Faucet	Yes
43	OMS-145-CF-26	Room 145 - Classroom Faucet	Yes
44	OMS-143-TLF-2	Room 143 - Teachers Lounge Faucet	Yes
45	OMS-MOF-EWC-8	Hall by Mainm Office - Electric Water Cooler	Yes
46	OMS-GUD-EWC-9	Hall by Guidance - Electric Water Cooler	Yes
47	OMS-150-CF-27	Room 150 - Classroom Faucet	Yes
48	OMS-154-CF-28	Room 154 - Classroom Faucet	Yes
49	OMS-H155-EWC-10	Hall by 155 - Electric Water Cooler	Yes
50	OMS-HAL-EWC-11	Hall by Girls Restroom - Classroom Faucet	Yes
51	OMS-25-CF-29	Room 25 - Work Bench - Classroom Faucet	Yes
52	OMS-25-CF-30	Room 25 - Classroom Faucet - Classroom Faucet	Yes
53	OMS-135-CF-31	Room 135 West Wall - Classroom Faucet	Yes
54	OMS-133-CF-32	Room 133 - Classroom Faucet	Yes
55	OMS-127-CF-33	Room 127 Podium - Classroom Faucet	Yes
56	OMS-127-CF-34	Room 127 Wall - Classroom Faucet	Yes
57	OMS-		
58	OMS-		



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

April 13, 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 **14** sample(s) the laboratory received on **4/4/22 2:50 pm** and logged in under work order **FD00535**. 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](mailto:lisa.grant@pacelabs.com).

A handwritten signature in black ink that reads 'Erin M. Lane'.

Erin Lane  
Project Manager  
(309)683-1767  
[erin.lane@pacelabs.com](mailto:erin.lane@pacelabs.com)

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order      FD00535

---

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



## ANALYTICAL RESULTS

**Sample:** FD00535-01**Name:** Room 175- Classroom Faucet**Alias:** OMS 8**Sampled:** 03/31/22 14:22**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

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

Copper	150	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:23	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:23	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-02**Name:** Girls Locker Room - Electric Water Cooler**Alias:** OMS 12**Sampled:** 03/31/22 13:45**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

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

Copper	250	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:25	KMC	EPA 200.8 REV 5.4
Lead	10	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:25	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-03**Name:** Girls Locker Room - Faucet**Alias:** OMS 13**Sampled:** 03/31/22 13:48**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

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

Copper	140	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:26	KMC	EPA 200.8 REV 5.4
Lead	6.3	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:26	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-04**Name:** Boys Locker Room - Faucet**Alias:** OMS 15**Sampled:** 03/31/22 13:50**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

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

Copper	39	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:34	KMC	EPA 200.8 REV 5.4
Lead	1.1	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:34	KMC	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** FD00535-05**Name:** Room 131 - Podium - Classroom Faucet**Alias:** OMS 28**Sampled:** 03/31/22 13:59**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	190	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:36	KMC	EPA 200.8 REV 5.4
Lead	2.6	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:36	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-06**Name:** Room 131 - Podium - Classroom Faucet**Alias:** OMS 28**Sampled:** 03/31/22 14:00**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	130	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:37	KMC	EPA 200.8 REV 5.4
Lead	2.2	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:37	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-07**Name:** Room 131 - Wall - Classroom Faucet**Alias:** OMS 29**Sampled:** 03/31/22 14:01**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	60	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:39	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:39	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-08**Name:** Room 130 - West - Classroom Faucet**Alias:** OMS 33**Sampled:** 03/31/22 13:56**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	130	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:40	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:40	KMC	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** FD00535-09**Name:** Room 132 - Classroom Faucet**Alias:** OMS 34**Sampled:** 03/31/22 14:03**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	110	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:42	KMC	EPA 200.8 REV 5.4
Lead	3.6	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:42	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-10**Name:** Room 147 - Classroom Faucet**Alias:** OMS 42**Sampled:** 03/31/22 14:14**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	78	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:43	KMC	EPA 200.8 REV 5.4
Lead	2.5	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:43	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-11**Name:** Room 150 - Classroom Faucet**Alias:** OMS 47**Sampled:** 03/31/22 14:17**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	180	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:45	KMC	EPA 200.8 REV 5.4
Lead	24	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:45	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-12**Name:** Room 135 West Wall - Classroom Faucet**Alias:** OMS 53**Sampled:** 03/31/22 14:05**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	76	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:53	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:53	KMC	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** FD00535-13**Name:** Room 25- Classroom Faucet**Alias:** OMS 54**Sampled:** 03/31/22 14:10**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	10	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:54	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:54	KMC	EPA 200.8 REV 5.4

**Sample:** FD00535-14**Name:** Room 127- Podium - Classroom Faucet**Alias:** OMS 55**Sampled:** 03/31/22 13:54**Received:** 04/04/22 14:50**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Copper	170	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:56	KMC	EPA 200.8 REV 5.4
Lead	11	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:56	KMC	EPA 200.8 REV 5.4



## 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: Erin Lane, Project Manager



## CHAIN OF CUSTODY RECORD

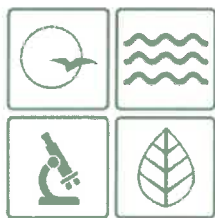
STATE WHERE SAMPLE COLLECTED MO

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

QUALTRAX 3219 REV 5

08/31/22

OAKLAND MIDDLE SCHOOL	1422	OMS	8	Room 175 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1345	OMS	12	Girls Locker Room - Electric Water Cooler
OAKLAND MIDDLE SCHOOL	1348	OMS	13	Girls Locker Room - Faucet
OAKLAND MIDDLE SCHOOL	1350	OMS	15	Boys Locker Room - Faucet
OAKLAND MIDDLE SCHOOL	1359	OMS	28	Room 131 - Podium - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1400	OMS	28	Room 131 - Podium - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1401	OMS	29	Room 131 - Wall - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1356	OMS	33	Room 130 - West - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1403	OMS	34	Room 132 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1414	OMS	42	Room 147 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1417	OMS	47	Room 150 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1405	OMS	53	Room 135 West Wall - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1410	OMS	54	Room 25 - Classroom Faucet
OAKLAND MIDDLE SCHOOL	1354	OMS	55	Room 127 Podium - Classroom Faucet
Roseta-Quest East		RQE	1	Room 7 - Classroom Faucet
Roseta-Quest East		RQE	2	Room 8B - Classroom Faucet
Roseta-Quest East		RQE	3	Room 9R Nurse Office Faucet
Roseta-Quest East		RQE	4	Room 9R Work Room Faucet
Roseta-Quest East		RQE	5	Room 11TB Lounge Faucet
Roseta-Quest East		RQE	6	Room 11TA Workroom Faucet
Roseta-Quest East		RQE	7	Room 2 - Classroom Faucet
Roseta-Quest East		RQE	8	Room 3 - Drinking Water Fountain
Roseta-Quest East		RQE	9	Room 12RB Hall - Electric Water Cooler
Roseta-Quest East		RQE	10	Room 5 - Classroom Faucet
Roseta-Quest East		RQE	11	Room 6 - Classroom Faucet
Roseta-Quest East		RQE	12	Room 5C Outside Gym - Electric Water Cooler
Battle High School		BHS	2	Hall by Room 138
Battle High School		BHS	37	B100 corridor EWC
Battle High School		BHS	38	B109 Concessions Kitchen Faucet



Missouri Department of dnr.mo.gov  
**NATURAL RESOURCES**

Michael L. Parson, Governor

Dru Buntin, Director

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

**EPA 245.1**

Mercury

**SM 4500NO3-F**

Nitrate, Nitrite

**EPA 300.0**

Fluoride, Nitrate, Nitrite

**EPA 200.7**

Barium, Beryllium, Cadmium,  
Chromium, Copper, Nickel

**EPA 335.4**

Total cyanide

**EPA 200.8**

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

**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-ethylhexyl)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

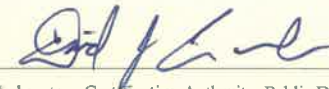
**Pace Analytical Services, LLC – Peoria, Illinois**

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.

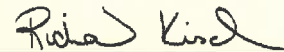
Certification Number 870

Date Issued January 6, 2022

Expiration Date June 30, 2022



Laboratory Certification Authority, Public Drinking Water Branch  
Missouri Department of Natural Resources



Certification Program Manager, Environmental Services Program  
Missouri Department of Natural Resources