



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

DATE: JANUARY 6, 2022

FACILITY NAME: **DERBY RIDGE ELEMENTARY SCHOOL**

**A. SAMPLE COLLECTION**

- |  |        |
|--|--------|
| 1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY  | 42     |
| 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% |
| 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:

Joshua D. Lehmen, PE



August 17, 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 **42** sample(s) the laboratory received on **7/23/21 7:00 pm** and logged in under work order **EG04921**. 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      EG04921

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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



## ANALYTICAL RESULTS

Sample: EG04921-01

Name: 1. Kitchen

Alias: DRE-KF-1

Sampled: 07/19/21 07:08

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	350	ug/L		1300	07/28/21 09:23	TJJ	EPA 200.8 REV 5.4
Lead	31	ug/L		**15	07/28/21 09:23	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-02

Name: 2. Kitchen

Alias: DRE-KF-2

Sampled: 07/19/21 07:10

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	07/28/21 09:24	TJJ	EPA 200.8 REV 5.4
Lead	1.7	ug/L		15	07/28/21 09:24	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-03

Name: 3. Kitchen

Alias: DRE-KF-3

Sampled: 07/19/21 07:10

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	200	ug/L		1300	07/28/21 09:26	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	07/28/21 09:26	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-04

Name: 4. Kitchen

Alias: DRE-KF-4

Sampled: 07/19/21 07:15

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	240	ug/L		1300	07/28/21 09:37	TJJ	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	07/28/21 09:37	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

Sample: EG04921-05

Name: 5. Kitchen

Alias: DRE-KF-5

Sampled: 07/19/21 07:10

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	07/28/21 09:38	TJJ	EPA 200.8 REV 5.4
Lead	1.9	ug/L		15	07/28/21 09:38	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-06

Name: 6. Main Lobby

Alias: DRE-EWC-1

Sampled: 07/19/21 06:55

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	290	ug/L		1300	07/28/21 09:40	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:40	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-07

Name: 7. Nurses Office

Alias: DRE-NSF-1

Sampled: 07/19/21 06:45

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	07/28/21 09:41	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:41	TJJ	EPA 200.8 REV 5.4

Sample: EG04921-08

Name: 8. Teachers Lounge

Alias: DRE-TLF-1

Sampled: 07/19/21 06:45

Received: 07/23/21 19:00

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	07/28/21 09:43	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:43	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-09  
**Name:** 9. Copy Room  
**Alias:** DRE-TLF-2

**Sampled:** 07/19/21 06:45  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	270	ug/L		1300	07/28/21 09:44	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L		15	07/28/21 09:44	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-10  
**Name:** 10. Room 419  
**Alias:** DRE-CF-419

**Sampled:** 07/19/21 06:15  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	200	ug/L		1300	07/28/21 09:46	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:46	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-11  
**Name:** 11. Room 221  
**Alias:** DRE-CF-221-1

**Sampled:** 07/19/21 06:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 09:47	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:47	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-12  
**Name:** 12. Room 221  
**Alias:** DRE-CF-221-2

**Sampled:** 07/19/21 06:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 09:56	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:56	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-13  
**Name:** 13. Room 223 North East Wall  
**Alias:** DRE-CF-223-1

**Sampled:** 07/19/21 06:35  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 09:58	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 09:58	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-14  
**Name:** 14. Room 223 South East Wall  
**Alias:** DRE-CF-223-2

**Sampled:** 07/19/21 06:35  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	180	ug/L		1300	07/28/21 09:59	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	07/28/21 09:59	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-15  
**Name:** 15. Room 225  
**Alias:** DRE-CF-225-1

**Sampled:** 07/19/21 06:35  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	07/28/21 10:01	TJJ	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	07/28/21 10:01	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-16  
**Name:** 16. Room 225  
**Alias:** DRE-CF-225-2

**Sampled:** 07/19/21 06:35  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	07/28/21 10:02	TJJ	EPA 200.8 REV 5.4
Lead	6.3	ug/L		15	07/28/21 10:02	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-17  
**Name:** 17. Room 225  
**Alias:** DRE-CF-225-3

**Sampled:** 07/19/21 06:35  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 10:04	TJJ	EPA 200.8 REV 5.4
Lead	1.6	ug/L		15	07/28/21 10:04	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-18  
**Name:** 18. Hall By 214  
**Alias:** DRE-EWC-2

**Sampled:** 07/19/21 06:45  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	240	ug/L		1300	07/28/21 10:05	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:05	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-19  
**Name:** 19. Room 213  
**Alias:** DRE-CF-213

**Sampled:** 07/19/21 06:45  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	07/28/21 10:07	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		15	07/28/21 10:07	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-20  
**Name:** 20. Room 211  
**Alias:** DRE-CF-211

**Sampled:** 07/19/21 06:45  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	160	ug/L		1300	07/28/21 10:20	TJJ	EPA 200.8 REV 5.4
Lead	1.0	ug/L		15	07/28/21 10:20	TJJ	EPA 200.8 REV 5.4





## ANALYTICAL RESULTS

**Sample:** EG04921-21  
**Name:** 21. Room 210  
**Alias:** DRE-CF-210

**Sampled:** 07/19/21 06:55  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 10:22	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:22	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-22  
**Name:** 22. Room 212  
**Alias:** DRE-CF-212

**Sampled:** 07/19/21 06:55  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 10:23	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:23	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-23  
**Name:** 23. Hall By 413  
**Alias:** DRE-EWC-3

**Sampled:** 07/19/21 06:15  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	190	ug/L		1300	07/28/21 13:22	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 13:22	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-24  
**Name:** 24. Room 413  
**Alias:** DRE-CF-413

**Sampled:** 07/19/21 06:15  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	160	ug/L		1300	07/28/21 10:26	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:26	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-25  
**Name:** 25. Room 411  
**Alias:** DRE-CF-411

**Sampled:** 07/19/21 06:15  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	130	ug/L		1300	07/28/21 10:28	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:28	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-26  
**Name:** 26. Room 409  
**Alias:** DRRE-CF-409

**Sampled:** 07/19/21 06:20  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 10:29	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:29	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-27  
**Name:** 27. Room 410  
**Alias:** DRE-CF-410

**Sampled:** 07/19/21 06:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 10:31	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 10:31	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-28  
**Name:** 28. Room 412  
**Alias:** DRE-CF-412

**Sampled:** 07/19/21 06:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 11:01	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:01	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-29  
**Name:** 29. Room 313  
**Alias:** DRE-CF-313

**Sampled:** 07/19/21 06:55  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	360	ug/L		1300	07/28/21 11:03	TJJ	EPA 200.8 REV 5.4
Lead	1.2	ug/L		15	07/28/21 11:03	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-30  
**Name:** 30. Room 312  
**Alias:** DRE-CF-312

**Sampled:** 07/19/21 06:55  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 11:04	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:04	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-31  
**Name:** 31. Hall By 313  
**Alias:** DRE-EWC-4

**Sampled:** 07/19/21 06:55  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 11:06	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:06	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-32  
**Name:** 32. Room 311  
**Alias:** DRE-CF-311

**Sampled:** 07/19/21 07:20  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	07/28/21 11:07	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:07	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-33  
**Name:** 33. Room 309  
**Alias:** DRE-CF-309

**Sampled:** 07/19/21 07:20  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	610	ug/L		1300	07/28/21 11:09	TJJ	EPA 200.8 REV 5.4
Lead	2.7	ug/L		15	07/28/21 11:09	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-34  
**Name:** 34. Room 310  
**Alias:** DRE-CF-310

**Sampled:** 07/19/21 07:20  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 11:10	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:10	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-35  
**Name:** 35. Room 112  
**Alias:** DRE-CF-112

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	170	ug/L		1300	07/28/21 11:12	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:12	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-36  
**Name:** 36. Room 319  
**Alias:** DRE-CF-319

**Sampled:** 07/19/21 07:20  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	310	ug/L		1300	07/28/21 11:21	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:21	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-37  
**Name:** 37. Hall By 118  
**Alias:** DRE-EWC-5

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	250	ug/L		1300	07/28/21 11:22	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:22	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-38  
**Name:** 38. Room 113  
**Alias:** DRE-CF-113

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	150	ug/L		1300	07/28/21 11:24	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:24	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-39  
**Name:** 39. Room 112  
**Alias:** DRE-DWF-112

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	140	ug/L		1300	07/28/21 11:25	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:25	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-40  
**Name:** 40. Room 111  
**Alias:** DRE-CF-111

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	130	ug/L		1300	07/28/21 11:27	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:27	TJJ	EPA 200.8 REV 5.4



## ANALYTICAL RESULTS

**Sample:** EG04921-41  
**Name:** 41. Room 110  
**Alias:** DRE-DWF-110

**Sampled:** 07/19/21 07:30  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	120	ug/L		1300	07/28/21 11:28	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/28/21 11:28	TJJ	EPA 200.8 REV 5.4

**Sample:** EG04921-42  
**Name:** 42. Next to Boiler  
**Alias:** DRE-KF-6

**Sampled:** 07/19/21 07:15  
**Received:** 07/23/21 19:00  
**Matrix:** Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>							
Copper	290	ug/L		1300	07/28/21 11:30	TJJ	EPA 200.8 REV 5.4
Lead	1.8	ug/L		15	07/28/21 11:30	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





## CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

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

[illegible]



Location:	Derby Ridge Elementary
Sample Date:	7/19/2021
Sample Time:	Various
Sampled By:	Randy Lee/Andy Casey

Sample No.	Coding System	Description	Sample Collected
1	DRE-KF-1	Kitchen Faucet	Yes
2	DRE-KF-2	Kitchen Faucet	Yes
3	DRE-KF-3	Kitchen Faucet	Yes
4	DRE-KF-4	Kitchen Faucet	Yes
5	DRE-KF-5	Kitchen Faucet	Yes
6	DRE-EWC-1	Main Lobby - Electric Water Cooler	Yes
7	DRE-NSF-1	Nurses Office Faucet	Yes
8	DRE-TLF-1	Teachers Lounge Faucet	Yes
9	DRE-TLF-2	Copy Room Faucet	Yes
10	DRE-CF-419	Room 419 - Classroom Faucet	Yes
11	DRE-CF-221-1	Room 221 - Classroom Faucet	Yes
12	DRE-CF-221-2	Room 221 - Classroom Faucet	Yes
13	DRE-CF-223-1	Room 223 - Classroom Faucet Northeast Wall	Yes
14	DRE-CF-223-2	Room 223 - Classroom Faucet Southeast Wall	Yes
15	DRE-CF-225-1	Room 225 - Classroom Faucet North	Yes
16	DRE-CF-225-2	Room 225 - Classroom Faucet South	Yes
17	DRE-CF-225-3	Room 225 - Classroom Faucet East Wall	Yes
18	DRE-EWC-2	Hall By 214 - Electric Water Cooler	Yes
19	DRE-CF-213	Room 213 - Classroom Faucet	Yes
20	DRE-CF-211	Room 211 - Classroom Faucet	Yes
21	DRE-CF-210	Room 210 - Classroom Faucet	Yes
22	DRE-CF-212	Room 212 - Classroom Faucet	Yes
23	DRE-EWC-3	Hall By 413 - Electric Water Cooler	Yes
24	DRE-CF-413	Room 413 - Classroom Faucet	Yes
25	DRE-CF-411	Room 411 - Classroom Faucet	Yes
26	DRE-CF-409	Room 409 - Classroom Faucet	Yes
27	DRE-CF-410	Room 410 - Classroom Faucet	Yes
28	DRE-CF-412	Room 412 - Classroom Faucet	Yes
29	DRE-CF-313	Room 313 - Classroom Faucet	Yes
30	DRE-CF-312	Room 312 - Classroom Faucet	Yes
31	DRE-EWC-4	Hall By 313 - Electric Water Cooler	Yes
32	DRE-CF-311	Room 311 - Classroom Faucet	Yes
33	DRE-CF-309	Room 309 - Classroom Faucet	Yes
34	DRE-CF-310	Room 310 - Classroom Faucet	Yes
35	DRE-CF-112	Room 112 - Classroom Faucet	Yes
36	DRE-CF-319	Room 319 - Classroom Faucet	Yes
37	DRE-EWC-5	Hall By 118 - Electric Water Cooler	Yes
38	DRE-CF-113	Room 113 - Classroom Faucet	Yes
39	DRE-DWF-112	Room 112 - Drinking Water Fountain	Yes
40	DRE-CF-111	Room 111 - Classroom Faucet	Yes
41	DRE-DWF-110	Room 110 - Drinking Water Fountain	Yes
42	DRE-KF-6	Kitchen Faucet Next to Boiler	Yes



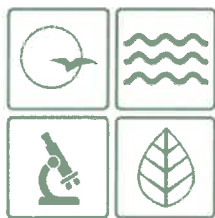
# "First Flush" Resampling

## ANALYTICAL RESULTS

**Sample:** EL04058-25  
**Name:** 1. Kitchen Faucet  
**Alias:** DRE-KF-1

**Sampled:** 12/14/21 06:54  
**Received:** 12/20/21 15:10  
**Matrix:** Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Total Metals - PIA</u></b>									
Copper	190	ug/L		01/06/22 09:26	1	3.0	01/06/22 10:03	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 10:03	KMC	EPA 200.8 REV 5.4



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 Aroclors, 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

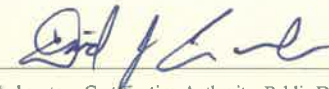
**Pace Analytical Services, LLC – Peoria, Illinois**

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.

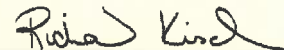
Certification Number 870

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