



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

DATE: JANUARY 6, 2022

FACILITY NAME: **WEST BOULEVARD ELEMENTARY SCHOOL**

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/ | |
| 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



July 23, 2021

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

RE: ESS Columbia Schools

Dear Josh Lehmen:

Please find enclosed the analytical results for the **13** sample(s) the laboratory received on **7/20/21 4:45 pm** and logged in under work order **EG03514**. 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,

Chenise Lambert-Sykes
Project Manager
lscyl
clambert-sykes@pdclab.com





SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order EG03514

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: EG03514-01
Name: Hall by Restroom E Wing
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	210	ug/L		07/22/21 10:10	5	3.0	07/22/21 13:42	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		07/22/21 10:10	5	1.0	07/22/21 13:42	TJJ	EPA 200.8 REV 5.4

Sample: EG03514-02
Name: Room 40
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	170	ug/L		07/22/21 10:10	5	3.0	07/22/21 13:44	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		07/22/21 10:10	5	1.0	07/22/21 13:44	TJJ	EPA 200.8 REV 5.4

Sample: EG03514-03
Name: Room 41
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	380	ug/L		07/22/21 10:10	5	3.0	07/22/21 13:45	TJJ	EPA 200.8 REV 5.4
Lead	1.7	ug/L		07/22/21 10:10	5	1.0	07/22/21 13:45	TJJ	EPA 200.8 REV 5.4

Sample: EG03514-04
Name: Room 43
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	230	ug/L		07/22/21 10:10	5	3.0	07/22/21 13:47	TJJ	EPA 200.8 REV 5.4
Lead	4.5	ug/L		07/22/21 10:10	5	1.0	07/22/21 13:47	TJJ	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EG03514-05
Name: Room 42
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-06
Name: Room 45
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-07
Name: Hall by 223 East WC
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-08
Name: Hall by 223 West WC
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EG03514-09
Name: Room 228
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-10
Name: Room 232
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-11
Name: Room 233
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EG03514-12
Name: Room 234
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EG03514-13
Name: Room 235
Matrix: Drinking Water - Grab

Sampled: 07/15/21 05:00
Received: 07/19/21 09:59

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Copper	310	ug/L		07/22/21 10:10	5	3.0	07/22/21 14:26	TJJ	EPA 200.8 REV 5.4
Lead	1.1	ug/L		07/22/21 10:10	5	1.0	07/22/21 14:26	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: Chenise Lambert-Sykes, Project Manager

Location:	West Boulevard
Sample Date:	7/15/21
Sample Time:	4:45 - 5:20 AM
Sampled By:	Josh Lehman

Sample No.	Coding System	Description	Sample Collected
5:00 1	WBE-__-EWC-1	Hall by restrooms E Wing	✓
5:00 2	WBE-40-CF-1	Room 40	✓
5:00 3	WBE-41-CF-2	Room 41	✓
5:00 4	WBE-43-CF-3	Room 43	✓
5:00 5	WBE-42-CF-4	Room 42	✓
6	WBE-31-DWF-1	Room 31	
7	WBE-32-DWF-2	Room 32	
8	WBE-30-DWF-3	Room 30	
9	WBE-29-DWF-4	Room 29	
10	WBE-28-DWF-5	Room 28	
11	WBE-__-EWC-2	Hall by Kitchen	
5:00 12	WBE-45-CF-5	Room 45	✓
13	WBE-__-KF-1	Kitchen	
14	WBE-22-DWF-6	Room 22	
15	WBE-108-DWF-7		
16	WBE-109-DWF-8		
17	WBE-106-DWF-9		
18	WBE-__-NSF-1	Nurses Office	
19	WBE-H200-EWC-3	Hall by 200	
20	WBE-__-NSF-2	Nurses Office	
21	WBE-__-TLF-1	Teachers Lounge	
22	WBE-203-CF-6	Room 203	
23	WBE-206-CF-7	Room 206	
24	WBE-207-CF-8	Room 207	
25	WBE-H209-EWC-4	Hall by 209	
26	WBE-209-CF-9	Room 209	
27	WBE-214-CF-10	Room 214	
28	WBE-215-CF-11	Room 215	
29	WBE-216-CF-12	Room 216	
30	WBE-H217-EWC-5	Hall by 217	
31	WBE-217-CF-13	Room 217	
5:00 32	WBE-H223-EWC-6	Hall by 223 East WC	✓
5:00 33	WBE-H223-EWC-7	Hall by 223 West WC	✓
5:00 34	WBE-228-CF-14	Room 228	✓
5:00 35	WBE-232-CF-15	Room 232	✓
5:00 36	WBE-233-CF-16	Room 233	✓
5:00 37	WBE-234-CF-17	Room 234	✓
5:00 38	WBE-235-CF-18	Room 235	✓
39	WBE-36-EWC-8	Hall by 36	



September 08, 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 **29** sample(s) the laboratory received on **8/23/21 2:47 pm** and logged in under work order **EH04760**. 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,

A handwritten signature in black ink that reads "Erin Lane".

Erin Lane
Project Manager





SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order EH04760

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
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
YES	Case narrative provided



ANALYTICAL RESULTS

Sample: EH04760-01
Name: 6. Room 31
Alias: WBE-31-DWF-1

Sampled: 08/20/21 06:10
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-02
Name: 7. Room 32
Alias: WBE-32-DWF-2

Sampled: 08/20/21 06:13
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-03
Name: 8. Room 30
Alias: WBE-30-DWF-3

Sampled: 08/20/21 06:17
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-04
Name: 9. Room 29
Alias: WBE-29-DWF-4

Sampled: 08/20/21 06:25
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EH04760-05
Name: 10. Room 28
Alias: WBE-28-DWF-5

Sampled: 08/20/21 06:30
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (18 ug/L) and Lead (5.0 ug/L).

Sample: EH04760-06
Name: 11. Hall by Kitchen
Alias: WBE-__-EWC-2

Sampled: 08/20/21 06:34
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (1200 ug/L) and Lead (58 ug/L).

Sample: EH04760-08
Name: 14. Room 22
Alias: WBE-__-KF-1

Sampled: 08/20/21 06:38
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (420 ug/L) and Lead (7.2 ug/L).

Sample: EH04760-09
Name: 15. Room 108
Alias: WBE-22-DWF-6

Sampled: 08/20/21 07:25
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (390 ug/L) and Lead (38 ug/L).



ANALYTICAL RESULTS

Sample: EH04760-10
Name: 16. Room 109
Alias: WBE-108-DWF-7

Sampled: 08/20/21 07:28
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-11
Name: 17. Room 106
Alias: WBE-109-DWF-8

Sampled: 08/20/21 07:31
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-13
Name: 19. Hall by 200
Alias: WBE-__-NSF-1

Sampled: 08/20/21 07:22
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-14
Name: 20. Nurses Office
Alias: WBE-H200-EWC-3

Sampled: 08/20/21 07:21
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EH04760-15
Name: 21. Teachers Lounge
Alias: WBE-__-NSF-2

Sampled: 08/20/21 07:17
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-16
Name: 22. Room 203
Alias: WBE-__-TLF-1

Sampled: 08/20/21 07:14
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-17
Name: 23. Room 206
Alias: WBE-203-CF-6

Sampled: 08/20/21 07:11
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-18
Name: 24. Room 207
Alias: WBE-206-CF-7

Sampled: 08/20/21 07:07
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EH04760-19
Name: 25. Hall by 209
Alias: WBE-207-CF-8

Sampled: 08/20/21 07:04
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-20
Name: 26. Room 209
Alias: WBE-H209-EWC-4

Sampled: 08/20/21 06:59
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-21
Name: 27. Room 214
Alias: WBE-209-CF-9

Sampled: 08/20/21 06:57
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-22
Name: 28. Room 215
Alias: WBE-214-CF-10

Sampled: 08/20/21 06:54
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EH04760-23
Name: 29. Room 216
Alias: WBE-215-CF-11

Sampled: 08/20/21 06:51
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-24
Name: 30. Hall by 217
Alias: WBE-216-CF-12

Sampled: 08/20/21 06:48
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-25
Name: 31. Room 217
Alias: WBE-H217-EWC-5

Sampled: 08/20/21 06:45
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.

Sample: EH04760-26
Name: 39. Hall by 36
Alias: WBE-36-EWC-8

Sampled: 08/20/21 06:05
Received: 08/23/21 10:42
Matrix: Drinking Water - Regular Sample

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Total Metals - PIA, Copper, and Lead.



ANALYTICAL RESULTS

Sample: EH04760-27
Name: #8 Flushed Line
Matrix: Drinking Water - Regular Sample

Sampled: 08/20/21 00:00
Received: 08/23/21 10:42

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (680 ug/L) and Lead (70 ug/L).

Sample: EH04760-28
Name: #14
Matrix: Drinking Water - Regular Sample

Sampled: 08/20/21 06:40
Received: 08/23/21 10:42

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (1200 ug/L) and Lead (9.6 ug/L).

Sample: EH04760-29
Name: #26 Flushed
Matrix: Drinking Water - Regular Sample

Sampled: 08/20/21 00:00
Received: 08/23/21 10:42

Table with 8 columns: Parameter, Result, Unit, Qualifier, MCL, Analyzed, Analyst, Method. Rows for Copper (28 ug/L) and Lead (1.9 ug/L).



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

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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

Location:	West Boulevard Elementary School
Sample Date:	8/20/2021
Sample Time:	Various
Sampled By:	Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
1	WBE-__-EWC-1	Hall by restrooms E Wing - Electric Water Cooler	Previous
2	WBE-40-CF-1	Room 40 - Classroom Faucet	Previous
3	WBE-41-CF-2	Room 41 - Classroom Faucet	Previous
4	WBE-43-CF-3	Room 43 - Classroom Faucet	Previous
5	WBE-42-CF-4	Room 42 - Classroom Faucet	Previous
6	WBE-31-DWF-1	Room 31 - Drinking Water Foundtain	Yes
7	WBE-32-DWF-2	Room 32 - Drinking Water Foundtain	Yes
8	WBE-30-DWF-3	Room 30 - Drinking Water Foundtain	Yes
9	WBE-29-DWF-4	Room 29 - Drinking Water Foundtain	Yes
10	WBE-28-DWF-5	Room 28 - Drinking Water Foundtain	Yes
11	WBE-KIT-EWC-2	Hall by Kitchen - Electric Water Cooler	Yes
12	WBE-45-CF-5	Room 45 - Classroom Faucet	Previous
13	WBE-KIT-KF-1	Kitchen Faucet	Yes
14	WBE-22-DWF-6	Room 22 - Drinking Water Foundtain	Yes
15	WBE-108-DWF-7	Room 108 - Drinking Water Foundtain	Yes
16	WBE-109-DWF-8	Room 109 - Drinking Water Foundtain	Yes
17	WBE-106-DWF-9	Room 106 - Drinking Water Foundtain	Yes
18	WBE-__-NSF-1	Nurses Office - Sink was removed	No
19	WBE-H200-EWC-3	Hall by 200 - Electric Water Cooler	Yes
20	WBE-__-NSF-2	Nurses Station Faucet	Yes
21	WBE-204-TLF-1	Teachers Lounge Faucet	Yes
22	WBE-203-CF-6	Room 203 - Classroom Faucet	Yes
23	WBE-206-CF-7	Room 206 - Classroom Faucet	Yes
24	WBE-207-CF-8	Room 207 - Classroom Faucet	Yes
25	WBE-H209-EWC-4	Hall by 209 - Electric Water Cooler	Yes
26	WBE-209-CF-9	Room 209 - Classroom Faucet	Yes
27	WBE-214-CF-10	Room 214 - Classroom Faucet	Yes
28	WBE-215-CF-11	Room 215 - Classroom Faucet	Yes
29	WBE-216-CF-12	Room 216 - Classroom Faucet	Yes
30	WBE-H217-EWC-5	Hall by 217 - Electric Water Cooler	Yes
31	WBE-217-CF-13	Room 217 - Classroom Faucet	Yes
32	WBE-H223-EWC-6	Hall by 223 - Electric Water Cooler	Previous
33	WBE-H223-EWC-7	Hall by 223 - Electric Water Cooler	Previous
34	WBE-228-CF-14	Room 228 - Classroom Faucet	Previous
35	WBE-232-CF-15	Room 232 - Classroom Faucet	Previous
36	WBE-233-CF-16	Room 233 - Classroom Faucet	Previous
37	WBE-234-CF-17	Room 234 - Classroom Faucet	Previous
38	WBE-235-CF-18	Room 235 - Classroom Faucet	Previous
39	WBE-36-EWC-8	Hall by 36 - Electric Water Cooler	Yes



"FIRST FLUSH" RESAMPLING

ANALYTICAL RESULTS

Sample: EL04058-AI
Name: 6. Room 31 - Drinking Water Fountain
Alias: WBE-31-DWF-1

Sampled: 12/09/21 06:23
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	6.0	ug/L		01/06/22 09:26	1	3.0	01/06/22 14:36	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		01/06/22 09:26	1	1.0	01/06/22 14:36	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: EL04058-AJ
Name: 8. Room 30 - Drinking Water Fountain
Alias: WBE-30-DWF-3

Sampled: 12/09/21 06:21
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AK
Name: 11. Hall by Kitchen - Electric Water Cooler
Alias: WBE-KIT-EWC-2

Sampled: 12/09/21 06:20
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AL
Name: 15. Room 108 - Drinking Water Fountain
Alias: WBE-108-DWF-7

Sampled: 12/09/21 06:26
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AM
Name: 22. Room 203 - Classroom Faucet
Alias: WBE-203-CF-6

Sampled: 12/09/21 06:17
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.



ANALYTICAL RESULTS

Sample: EL04058-AN
Name: 25. Hall by 209 - Electric Water Cooler
Alias: WBE-H209-EWC-4

Sampled: 12/09/21 06:15
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AO
Name: 26. Room 209 - Classroom Faucet
Alias: WBE-209-CF-9

Sampled: 12/09/21 06:13
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AP
Name: 27. Room 214- Classroom Faucet
Alias: WBE-214-CF-10

Sampled: 12/09/21 06:11
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.

Sample: EL04058-AQ
Name: 29. Room 216 - Classroom Faucet
Alias: WBE-216-CF-12

Sampled: 12/09/21 06:09
Received: 12/20/21 15:10
Matrix: Drinking Water - Grab

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Includes Total Metals - PIA section with rows for Copper and Lead.



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 **1** sample(s) the laboratory received on **4/4/22 2:50 pm** and logged in under work order **FD00546**. 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.

A handwritten signature in black ink that reads "Erin Lane". The signature is written in a cursive, flowing style.

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



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order FD00546

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: FD00546-01

Name: Room 203 - Classroom Faucet

Alias: WBE 22

Sampled: 03/31/22 15:51

Received: 04/04/22 14:50

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Copper	19	ug/L		04/11/22 12:52	1	3.0	04/11/22 16:57	KMC	EPA 200.8 REV 5.4
Lead	1.0	ug/L		04/11/22 12:52	1	1.0	04/11/22 16:57	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



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

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

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

1 CLIENT Engineering Surveys & Services ADDRESS: 1113 Fay Street CITY STATE ZIP: Columbia, MO 65201 CONTACT PERSON: Josh Lehmen		PROJECT NUMBER: L14571 PHONE NUMBER: 573-449-2646	PROJECT LOCATION: Columbia, MO E-MAIL: jlehmen@ess-inc.com	PURCHASE ORDER # DATE SHIPPED: 4/1/22	3 ANALYSIS REQUESTED + Copper and Lead			4 (FOR LAB USE ONLY) LOGIN #: F0000546-01 LOGGED BY: DLW CLIENT: PROJECT: PROJ. MGR.: CUSTODY SEAL #:				
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT) Various Samples From Various Schools (See attached sheet) Please provide separate reports for each school		DATE COLLECTED: bottle TIME COLLECTED: bottle	SAMPLE TYPE: X GRAB COMP	MATRIX TYPE BOTTLE COUNT PRES CODE CLIENT PROVIDED	6 9			REMARKS: West Boulevard Elementary				
CHEMICAL PRESERVATION CODES: 1-HCL 2-H2SO4 3-HNO3 4-NAOH 5-NA2S2O3 6-UNPRESERVED 7-OTHER												
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:				6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)		7 RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME				8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT: 19.4 °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE: yes, by DLW		

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

03/31/22
15:51



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

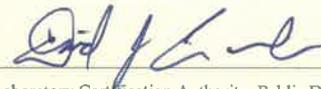
Pace Analytical Services, LLC – Peoria, Illinois

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.

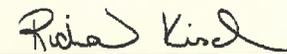
Certification Number 870

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