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

DATE: JANUARY 6, 2022

FACILITY NAME: DOUGLAS HIGH SCHOOL

#### A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY 14

2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS 100.0%

1. COPPER ACTION LIMIT = 1,300 UG/

3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS 100.0%

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

#### **B. SAMPLE EXCEEDANCE**

NUMBER OF SAMPLES EXCEEDING COPPER ACTION LIMIT
 NUMBER OF SAMPLES EXCEEDING LEAD ACTION LIMIT

#### C. CONCLUSION

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

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

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

Prepared By:

Jahn DLA

Joshua D. Lehmen, PE



#### **PDC** Laboratories

PROFESSIONAL • DEPENDABLE • COMMITTED

September 29, 2021

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

RE: L14571

Dear Josh Lehmen:

Please find enclosed the analytical results for the **14** sample(s) the laboratory received on **8/16/21 3:40 pm** and logged in under work order **EH04410**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories.

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

PDC Laboratories. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or Igrant@pdclab.com.

Sincerely,

Erin Lane

Project Manager

Ini M Save





#### SAMPLE RECEIPT CHECK LIST

#### Items not applicable will be marked as in compliance

Work Order

Samples received within temperature compliance when applicable
COC present upon sample receipt
COC completed & legible
Sampler name & signature present
Unique sample IDs assigned
Sample collection location recorded
Date & time collected recorded on COC
Relinquished by client signature on COC
COC & labels match
Sample labels are legible

EH04410

NO Trip blank(s) received

YES All non-field analyses received within holding times

Zero headspace, <6 mm present in VOA vials

NO Short hold time analysis

Current PDC COC submitted

Appropriate bottle(s) received

Sufficient sample volume received

Sample containers received undamaged

YES Case narrative provided

YES

YES

YES

NO

Customer #: 275332 www.pdclab.com



#### **Case Narrative**

8/16/21 - COC and ESS Sample Sheet were not received with samples.



Sample: EH04410-01

Name: 1. KITCHEN FAUCET WEST WALL

Alias: DHS-KF-1

Sampled: 08/11/21 05:40

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	310	ug/L	0	08/26/21 13:01	5	3.0	08/26/21 15:05	TJJ	EPA 200.8 REV 5.4
Lead	1.5	ug/L	O	08/26/21 13:01	5	1.0	08/26/21 15:05	TJJ	EPA 200.8 REV 5.4

**Sample:** EH04410-02

Name: 2. ROOM 115 - CLASSROOM FAUCET

Alias: DHS-115-CF-1

Sampled: 08/11/21 05:40

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

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	350	ug/L	C	08/26/21 13:01	5	3.0	08/26/21 15:06	TJJ	EPA 200.8 REV 5.4
Lead	1.5	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 15:06	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-03

Name: 3. HALL BY ROOM 115 - ELECTRIC WATER COOLER

Alias: DHS-H115-EWC-1

Sampled: 08/11/21 05:40

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

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	550	ug/L	Q1, R	08/26/21 13:01	5	3.0	08/26/21 15:08	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		08/26/21 13:01	5	1.0	08/26/21 15:08	TJJ	EPA 200.8 REV 5.4

**Sample:** EH04410-04

Name: 4. ROOM 134 - CLASSROOM FAUCET

Alias: DHS-134-CF-2

Sampled: 08/11/21 05:45

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	340	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:17	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:17	TJJ	EPA 200.8 REV 5.4



Sample: EH04410-06

Name: 6. ROOM 213 - ELECTRIC WATER COOLER

Alias: DHS-213-EWC-3

Sampled: 08/11/21 05:51

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Pre	pared [	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	510	ug/L	08/26/	21 13:01	5	3.0	08/26/21 15:18	TJJ	EPA 200.8 REV 5.4
Lead	1.6	ug/L	08/26/	21 13:01	5	1.0	08/26/21 15:18	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-07

Name: 7. ROOM 218 - NURSE STATION FAUCET

Alias: DHS-218-NSF-1

**Sampled:** 08/11/21 05:58 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	500	ug/L	0	08/26/21 13:01	5	3.0	08/26/21 15:20	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 15:20	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-08

Name: 8. ROOM 241 - KITCHEN FAUCET SOUTH WALL

Alias: DHS-241-KF-2

**Sampled:** 08/11/21 05:55

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	400	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:21	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:21	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-09

Name: 9. ROOM 241 - KITCHEN FAUCET NORTH WALL

Alias: DHS-241-KF-3

**Sampled:** 08/11/21 05:55 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	400	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:23	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:23	TJJ	EPA 200.8 REV 5.4



**Sample:** EH04410-10

Name: 10. ROOM 244 - TEACHER'S LOUNGE FAUCET

Alias: DHS-244-TLF-1

Sampled: 08/11/21 05:56

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

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	430	ug/L	C	08/26/21 13:01	5	3.0	08/26/21 15:24	TJJ	EPA 200.8 REV 5.4
Lead	1.0	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 15:24	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-11

Name: 11. ROOM 311 - CLASSROOM FAUCET

Alias: DHS-311-CF-3

**Sampled:** 08/11/21 05:59 **Received:** 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	490	ug/L	0	08/26/21 13:01	5	3.0	08/26/21 15:26	TJJ	EPA 200.8 REV 5.4
Lead	1.3	ug/L	C	08/26/21 13:01	5	1.0	08/26/21 15:26	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-12

Name: 12. ROOM 322 - CLASSROOM FAUCET NORTH WALL

Alias: DHS-322-CF-4

Sampled: 08/11/21 06:05

Received: 08/16/21 15:40

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	370	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:35	TJJ	EPA 200.8 REV 5.4
Lead	30	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:35	TJJ	EPA 200.8 REV 5.4

Sample: EH04410-13

Name: 13. ROOM 322 - CLASSROOM FAUCET DESK SINKS

Alias: DHS-322-CF-5

**Sampled:** 08/11/21 06:05

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

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	270	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:36	TJJ	EPA 200.8 REV 5.4
Lead	4.7	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:36	TJJ	EPA 200.8 REV 5.4



**Sample**: EH04410-14 **Sampled**: 08/11/21 06:05

Name: 14. ROOM 322 - CLASSROOM FAUCET EAST WALL Received: 08/16/21 15:40

lias: DHS-322-CF-6 Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	460	ug/L	08/26/21 13:01	5	3.0	08/26/21 15:38	TJJ	EPA 200.8 REV 5.4
Lead	35	ug/L	08/26/21 13:01	5	1.0	08/26/21 15:38	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

#### **Qualifiers**

- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- R Matrix Spike/Matrix Spike Duplicate Failed %Relative Percent Difference criterion.

Mysine

Certified by: Erin Lane, Project Manager





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

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

# CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

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Page 9 of 10

Location:	Douglas High School
Sample Date:	8/11/2021
Sample Time:	Various
Sampled By:	Josh Lehmen and Kyle Vidusic

Sample No.	Coding System	Description	Sample Collected
1	DHS-KF-1	Kitchen Faucet West Wall	yes
2	DHS-115-CF-1	Room 115 - Classroom Faucent	yes
3	DHS-H115-EWC-1	Hall by Room 115 - Electric Water Cooler	yes
4	DHS-134-CF-2	Room 134 - Classroom Faucent	yes
5	DHS-H134-EWC-2	Hall by Room 134 - Electric Water Cooler	yes
6	DHS-213-EWC-3	Room 213 - Electric Water Cooler	yes
7	DHS-218-NSF-1	Room 218 - Nurse Station Faucet	yes
8	DHS-241-KF-2	Room 241 - Kitchen Faucet South Wall	yes
9	DHS-241-KF-3	Room 241 - Kitchen Faucet North Wall	yes
10	DHS-244-TLF-1	Room 244 - Teacher's Lounge Faucet	yes
11	DHS-311-CF-3	Room 311 - Classroom Faucent	yes
12	DHS-322-CF-4	Room 322 - Classroom Faucent North Wall	yes
13	DHS-322-CF-5	Room 322 - Classroom Faucent Desk Sinks	yes
14	DHS-322-CF-6	Room 322 - Classroom Faucent East Wall	yes
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#### "First Flush" Resampling

#### **ANALYTICAL RESULTS**

**Sample:** EL04058-67

Name: 5. Hall by Room 134 - Electric Water Cooler - Off

Alias: DHS-H134-EWC-2

Sampled: 12/17/21 06:45

Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	320	ug/L	01/06/22 09:26	1	3.0	01/06/22 12:20	KMC	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L	01/06/22 09:26	1	1.0	01/06/22 12:20	KMC	EPA 200.8 REV 5.4

Sample: EL04058-68

Name: 12. Room 322 - Classroom Faucet North Wall

Alias: DHS-322-CF-4

 Sampled:
 12/17/21 06:45

 Received:
 12/20/21 15:10

 Matrix:
 Drinking Water - Grab

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	290	ug/L	01/06/22 09:26	1	3.0	01/06/22 12:22	KMC	EPA 200.8 REV 5.4
Lead	4.0	ug/L	01/06/22 09:26	1	1.0	01/06/22 12:22	KMC	EPA 200.8 REV 5.4



**Sample:** EL04058-69

Name: 14. Room 322 - Classroom Faucet East Wall

Alias: DHS-322-CF-6

Sampled: 12/17/21 06:48

Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter Result Unit Qualifier Prepared Dilution MRL Analyzed Analyst Method Total Metals - PIA Copper 01/06/22 09:26 01/06/22 12:23 KMC EPA 200.8 REV 5.4 150 1 3.0 ug/L Lead 3.3 01/06/22 09:26 1 1.0 01/06/22 12:23 KMC EPA 200.8 REV 5.4 ug/L

January 6, 2022

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

Dear Mr. Travis:

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

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

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

Sincerely,

WATER PROTECTION PROGRAM

David J/Lamb

Public Drinking Water Branch Chief

DJL/lf

**Enclosures** 

c: Mr. Richard Kirsch, Environmental Services Program



#### MISSOURI DEPARTMENT OF NATURAL RESOURCES

#### DRINKING WATER LABORATORY

#### CERTIFIED PARAMETER LIST

This is to certify that

## Pace Analytical Services, LLC - Peoria, Illinois

located at

2231 West Altorfer Drive, Peoria, Illinois 61615-1807

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

#### **INORGANIC**

SM 4500F-C

Fluoride

SM 4500NO3-F

Nitrate, Nitrite

**EPA 200.7** 

Barium, Beryllium, Cadmium,

Chromium, Copper, Nickel

**EPA 200.8** 

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

**EPA 245.1** 

Mercury

**EPA 300.0** 

Fluoride, Nitrate, Nitrite

**EPA 335.4** 

Total cyanide

EPA 353.2

Nitrate, Nitrite, Total Nitrate and Nitrite

#### **ORGANIC**

#### **EPA 504.1**

Dibromochloropropane (DBCP), Ethylene dibromide (EDB)

#### EPA 515.3

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

#### **EPA 524.2**

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

#### **EPA 525.2**

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

#### **EPA 531.1**

Carbofuran, Oxamyl (Vydate)

#### **EPA 547**

Glyphosate

#### **EPA 548.1**

Endothall

#### **EPA 549.2**

Diquat

#### **EPA 550**

Benzo(a)pyrene

#### EPA 552.2

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

Pace Analytical Services, LLC - Peoria, Illinois

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

### State of Missouri Department of Natural Resources

Certificate of Approval for Chemical Laboratory Service

This is to certify that

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

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

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

Missouri Department of Natural Resources