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

DATE: April 12, 2022

FACILITY NAME: WEST MIDDLE SCHOOL

#### A. SAMPLE COLLECTION

1. NUMBER OF SAMPLES COLLECTED AT THIS FACILITY

2. PERCENTAGE OF SAMPLES BELOW COPPER ACTION LIMITS 100.0%

COPPER ACTION LIMIT = 1,300 UG/

3. PERCENTAGE OF SAMPLES BELOW LEAD ACTION LIMITS

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

0

51

98.0%

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:

Jahn DLA

Joshua D. Lehmen, PE



#### PDC Laboratories, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

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 **52** sample(s) the laboratory received on **7/28/21 11:27 am** and logged in under work order **EG05581**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

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

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

Sincerely,

Erin Lane Project Manager





#### SAMPLE RECEIPT CHECK LIST

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

EG05581

Work Order

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
NO	Case narrative provided

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Name:

#### **ANALYTICAL RESULTS**

Sample: EG05581-01

1. Kitchen - Faucet Southwest

Alias: WMS-\_\_KF-1

Sampled: 07/24/21 07:32

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	07/30/21 13:02	TJJ	EPA 200.8 REV 5.4
Lead	3.5	ug/L		15	07/30/21 13:02	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-02

Name: 2. Kitchen - Faucet Southeast

Alias: WMS-\_\_KF-2

**Sampled:** 07/24/21 07:32 **Received:** 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	110	ug/L		1300	07/30/21 13:03	TJJ	EPA 200.8 REV 5.4
Lead	4.7	ug/L		15	07/30/21 13:03	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-03

Name: 3. Kitchen - Faucet Center

Alias: WMS-\_\_KF-3

Sampled: 07/24/21 07:32 Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	110	ug/L		1300	07/30/21 13:05	TJJ	EPA 200.8 REV 5.4
Lead	4.5	ug/L		15	07/30/21 13:05	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-04

Name: 4. Room 229 - Faucet North

Alias: WMS-229-FACSF-1

Sampled: 07/24/21 07:27

Received: 07/28/21 11:27

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	140	ug/L		1300	07/30/21 13:06	TJJ	EPA 200.8 REV 5.4
Lead	4.9	ug/L		15	07/30/21 13:06	TJJ	EPA 200.8 REV 5.4



Sample: EG05581-05

Sampled: 07/24/21 07:27

5. Room 229 - Faucet East Name: WMS-229-FACSF-2 Alias:

Received: 07/28/21 11:27

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	100	ug/L		1300	07/30/21 13:08	TJJ	EPA 200.8 REV 5.4
Lead	8.3	ug/L		15	07/30/21 13:08	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-06

Alias:

Name: 6. Room 229 - Faucet South WMS-229-FACSF-3

Sampled: 07/24/21 07:27 Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	120	ug/L		1300	07/30/21 13:09	TJJ	EPA 200.8 REV 5.4
Lead	3.7	ug/L		15	07/30/21 13:09	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-07

7. Hall by 227 - Electric Water Cooler Name:

WMS-H227-EWC-1 Alias:

Sampled: 07/24/21 07:25

Received: 07/28/21 11:27

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	07/30/21 13:11	TJJ	EPA 200.8 REV 5.4
Lead	6.1	ug/L		15	07/30/21 13:11	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-08

Name: 8. Room 221 - Faucet

Alias: WMS-221-TLF-1 Sampled: 07/24/21 07:27

Received: 07/28/21 11:27

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	56	ug/L		1300	07/30/21 13:12	TJJ	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	07/30/21 13:12	TJJ	EPA 200.8 REV 5.4



Sample: EG05581-09

Name: 9. Hall by 222 - Electric Water Cooler

Alias: WMS-H222-EWC-2

Sampled: 07/24/21 07:19

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	84	ug/L		1300	07/30/21 13:44	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	07/30/21 13:44	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-10

Name: 10. Nurses Office - Faucet

Alias: WMS-222-NSF-1

**Sampled:** 07/24/21 07:20 **Received:** 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	07/30/21 13:45	TJJ	EPA 200.8 REV 5.4
Lead	10	ug/L		15	07/30/21 13:45	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-11

Name: 11. Hall by 212 - Electric Water Cooler

Alias: WNS-H212-EWC-3

Sampled: 07/24/21 07:15

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	07/30/21 13:47	TJJ	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	07/30/21 13:47	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-13

Name: 14. Hall by 112 - Electric Water Cooler

Alias: WNS-H112-EWC-6

**Sampled:** 07/24/21 06:19

Received: 07/28/21 11:27

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	280	ug/L		1300	07/30/21 13:48	TJJ	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	07/30/21 13:48	TJJ	EPA 200.8 REV 5.4



Parameter

#### **ANALYTICAL RESULTS**

Sample: EG05581-14

Sampled: 07/24/21 06:16

Analyst Method

Sample:	EG05581-14					Sampled:	07/24/21 (	סו :סנ
Name:	15. Hall by 123 - Electric Water Cool	ler				Received:	07/28/21 1	11:27
Alias:	WNS-H123-EWC-7					Matrix:	Drinking V	Vater - Regular Sample
arameter	Re	sult	Unit	Qualifier	MCL	Analyzed	Analyst	Method
otal Metals - PIA	<u>1</u>							
Copper		350	ug/L		1300	07/30/21 13:50	TJJ	EPA 200.8 REV 5.4
ead		4.5	ug/L		15	07/30/21 13:50	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-15					Sampled:	07/24/21 (	07:04
Name:	16. Hall by 101 - Electric Water Cool	ler				Received:	07/28/21 1	11:27
Alias:	WNS-H101-EWC-8					Matrix:	Drinking V	Vater - Regular Sample
Parameter	Re	sult	Unit	Qualifier	MCL	Analyzed	Analyst	Method
otal Metals - PIA	7							
Copper		86	ug/L		1300	07/30/21 13:51	TJJ	EPA 200.8 REV 5.4
ead		2.2	ug/L		15	07/30/21 13:51	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-16					Sampled:	07/24/21 (	06:53
Name:	17. Hall by 136 - Electric Water Cool	ler				Received:	07/28/21 1	11:27
Alias:	WNS-H136-EWC-9					Matrix:	Drinking V	Vater - Regular Sample
arameter	Re	sult	Unit	Qualifier	MCL	Analyzed	Analyst	Method
otal Metals - PIA	1							
Copper		190	ug/L		1300	07/30/21 13:53	TJJ	EPA 200.8 REV 5.4
.ead		13	ug/L		15	07/30/21 13:53	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-17					Sampled:	07/24/21 (	07:00
Name:	18. Room 136 - Classroom Faucet					Received:	07/28/21 1	11:27
Alias:	WNS-136-CF-30					Matrix:	Drinking V	Vater - Regular Sample

 Total Metals - PIA

 Copper
 150
 ug/L
 1300
 07/30/21 13:54
 TJJ
 EPA 200.8 REV 5.4

 Lead
 12
 ug/L
 15
 07/30/21 13:54
 TJJ
 EPA 200.8 REV 5.4

Qualifier

Result

Unit

MCL

Analyzed



Sample: EG05581-18

Name: 19. Room 137 - Electric Water Cooler

Alias: WNS-137-EWC-10

Sampled: 07/24/21 07:01

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Resu	ılt U	Jnit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - Pl</u>	<u>4</u>							
Copper	•	60 u	ıg/L		1300	07/30/21 14:03	TJJ	EPA 200.8 REV 5.4
Lead		14 u	ıg/L		15	07/30/21 14:03	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-19					Sampled:	07/24/21 0	6:55
Name:	20. Room 135 - Electric Water Cooler					Received:	07/28/21 1	1:27
Alias:	WNS-135-EWC-11					Matrix:	Drinking W	/ater - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	170	ug/L		1300	07/30/21 14:05	TJJ	EPA 200.8 REV 5.4
Lead	21	ug/L		**15	07/30/21 14:05	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-20

Name: 21. Hall by 125 - Electric Water Cooler

Alias: WNS-H125-EWC-12

**Sampled:** 07/24/21 06:24 **Received:** 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Result Unit Qualifier MCL Analyst Method **Parameter** Analyzed Total Metals - PIA Copper 180 ug/L 1300 07/30/21 14:06 TJJ EPA 200.8 REV 5.4 Lead < 1.0 ug/L 15 07/30/21 14:06 TJJ EPA 200.8 REV 5.4

Sample: EG05581-21

Name: 22. Hall by 130 - Electric Water Cooler

Alias: WNS-H130-EWC-13

Sampled: 07/24/21 06:36

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	190	ug/L		1300	07/30/21 14:08	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/30/21 14:08	TJJ	EPA 200.8 REV 5.4

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Sample: EG05581-22

Sampled: 07/24/21 06:47

	Name:	23. Room 132 - Electric Water Coo	ler				Received:		
	Alias:	WNS-132-EWC-14					Matrix:		Vater - Regular Sample
Parame	eter	R	esult	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total M	letals - PIA	<u> </u>							
Copper			260	ug/L		1300	07/30/21 14:09	TJJ	EPA 200.8 REV 5.4
Lead			< 1.0	ug/L		15	07/30/21 14:09	TJJ	EPA 200.8 REV 5.4
	Sample:	EG05581-23					Sampled:	07/24/21 (	06:18
	Name:	24. Room 133 - Electric Water Coo	ler				Received:	07/28/21 1	11:27
	Alias:	WNS-133-EWC-15					Matrix:	Drinking V	Vater - Regular Sample
Parame	eter	R	esult	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total M	letals - PIA	1							
Copper			190	ug/L		1300	07/30/21 14:11	TJJ	EPA 200.8 REV 5.4
Lead			< 1.0	ug/L		15	07/30/21 14:11	TJJ	EPA 200.8 REV 5.4
	Sample:	EG05581-24					Sampled:	07/24/21 (	06:18
	Name:	25. Room 131 - Classroom Faucet	North				Received:	07/28/21 1	11:27
	Alias:	WMS-131-CF-1					Matrix:	Drinking V	Vater - Regular Sample
Parame	eter	R	esult	Unit	Qualifier	MCL	Analyzed	Analyst	Method

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method	
Total Metals - PIA								
Copper	240	ug/L		1300	07/30/21 14:12	TJJ	EPA 200.8 REV 5.4	
Lead	3.7	ug/L		15	07/30/21 14:12	TJJ	EPA 200.8 REV 5.4	
·								

Sample: EG05581-25

Name: 26. Room 131 - Classroom Faucet East

Alias: WMS-131-CF-2

Sampled: 07/24/21 00:00

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	160	ug/L		1300	07/30/21 14:14	TJJ	EPA 200.8 REV 5.4
Lead	1.4	ug/L		15	07/30/21 14:14	TJJ	EPA 200.8 REV 5.4

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Sample: EG05581-26

Sampled: 07/24/21 06:20

Name:	27. Room 131 - Classroom Faucet South					07/28/21 1	
Alias:	WMS-131-CF-3				Matrix:	Drinking v	Vater - Regular Sample
Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u> </u>						
Copper	230	ug/L		1300	07/30/21 14:23	TJJ	EPA 200.8 REV 5.4
Lead	12	ug/L		15	07/30/21 14:23	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-27				Sampled:	07/24/21 (	06:22
Name:	28. Room 124 - Classroom Faucet North				Received:	07/28/21 1	11:27
Alias:	WMS-124-CF-4				Matrix:	Drinking V	Vater - Regular Sample
Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - Pl	<u>4</u>						
Copper	160	ug/L		1300	07/30/21 14:24	TJJ	EPA 200.8 REV 5.4
Lead	2.9	ug/L		15	07/30/21 14:24	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-28				Sampled:	07/24/21 (	06:22
	00 D 404 OI					0=100101	

29. Room 124 - Classroom Faucet East Name:

WMS-124-CF-5 Alias:

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	610	ug/L		1300	07/30/21 14:26	TJJ	EPA 200.8 REV 5.4
Lead	8.4	ug/L		15	07/30/21 14:26	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-29

30. Room 124 - Classroom Faucet South

Alias: WMS-124-CF-6 **Sampled:** 07/24/21 06:22

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	850	ug/L		1300	07/30/21 14:27	TJJ	EPA 200.8 REV 5.4
Lead	8.0	ug/L		15	07/30/21 14:27	TJJ	EPA 200.8 REV 5.4

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Sample: EG05581-30

**Sampled:** 07/24/21 06:30

	p	EG05561-30					Sampied:		
N	lame:	31. Room 125 - Classroom Faucet No	rth				Received:	07/28/21 1	1:27
Α	lias:	WMS-125-CF-7					Matrix:	Drinking V	/ater - Regular Sample
Paramete	r	Resu	ult Ur	iit	Qualifier	MCL	Analyzed	Analyst	Method
Total Meta	als - PIA	<b>.</b>							
Copper		2	00 ug	/L		1300	07/30/21 14:29	TJJ	EPA 200.8 REV 5.4
Lead		2	2.9 ug	/L		15	07/30/21 14:29	TJJ	EPA 200.8 REV 5.4
S	ample:	EG05581-31					Sampled:	07/24/21 0	06:30
N	lame:	32. Room 125 - Classroom Faucet So	uth				Received:	07/28/21 1	1:27
Α	lias:	WMS-125-CF-8					Matrix:	Drinking V	/ater - Regular Sample
Paramete	r	Resu	ult Ur	iit	Qualifier	MCL	Analyzed	Analyst	Method
Total Meta	als - PIA								
Copper		1	60 ug	/L		1300	07/30/21 14:30	TJJ	EPA 200.8 REV 5.4
Lead								<b>T.</b>	EPA 200.8 REV 5.4
-044		'	I.8 ug	/L		15	07/30/21 14:30	TJJ	EPA 200.6 REV 5.4
	ample:	EG05581-32	1.8 ug	/L		15		07/24/21 (	
S	ample:			/L		15	Sampled:		06:32
S	•	EG05581-32		/L		15	Sampled:	07/24/21 0 07/28/21 1	06:32 1:27
S	lame:	<b>EG05581-32</b> 34. Room 126 - Classroom Faucet Ea	st		Qualifier	MCL	Sampled: Received:	07/24/21 0 07/28/21 1	06:32 1:27 Vater - Regular Sample
S <sub>i</sub>	lame: llias:	EG05581-32  34. Room 126 - Classroom Faucet Ea: WMS-126-CF-10	st		Qualifier		Sampled: Received: Matrix:	07/24/21 ( 07/28/21 1 Drinking V	06:32 1:27 Vater - Regular Sample
S N A Parameter	lame: llias:	EG05581-32 34. Room 126 - Classroom Faucet Ear WMS-126-CF-10  Resu	st	iit	Qualifier		Sampled: Received: Matrix:	07/24/21 ( 07/28/21 1 Drinking V	06:32 1:27 Vater - Regular Sample

Sample: EG05581-33

Name: 35. Room 126 - Classroom Faucet West

Alias: WMS-126-CF-11

**Sampled:** 07/24/21 06:32

Received: 07/28/21 11:27

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	200	ug/L		1300	07/30/21 14:33	TJJ	EPA 200.8 REV 5.4
Lead	2.4	ug/L		15	07/30/21 14:33	TJJ	EPA 200.8 REV 5.4



Sample: EG05581-34

Name: 36. Room 126 - Classroom Faucet North

Alias: WMS-126-CF-12

Sampled: 07/24/21 06:32

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	150	ug/L		1300	07/30/21 14:39	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	07/30/21 14:39	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-35

Name: 37. Room 126 - Classroom Faucet East

Alias: WMS-126-CF-13

Sampled: 07/24/21 06:27 Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	130	ug/L		1300	07/30/21 14:41	TJJ	EPA 200.8 REV 5.4
Lead	< 1.0	ug/L		15	07/30/21 14:41	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-36

Name: 38. Room 127 - Classroom Faucet South

Alias: WMS-127-CF-14

Sampled: 07/24/21 06:26

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	170	ug/L		1300	07/30/21 14:42	TJJ	EPA 200.8 REV 5.4
Lead	5.7	ug/L		15	07/30/21 14:42	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-37

Name: 39. Room 127 - Classroom Faucet West

Alias: WMS-127-CF-14

**Sampled:** 07/24/21 06:26

Received: 07/28/21 11:27

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Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	290	ug/L		1300	07/30/21 14:44	TJJ	EPA 200.8 REV 5.4
Lead	3.6	ug/L		15	07/30/21 14:44	TJJ	EPA 200.8 REV 5.4



Sample: EG05581-38

Sampled: 07/24/21 06:39

Sample:	EG05581-38				Sampled:	07/24/21 (	06:39
Name:	40. Room 128 - Classroom Faucet North				Received:	07/28/21	11:27
Alias:	WMS-128-CF-16				Matrix:	Drinking V	Vater - Regular Sample
arameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
otal Metals - PIA	<u>1</u>						
Copper	170	ug/L		1300	07/30/21 14:45	TJJ	EPA 200.8 REV 5.4
ead	2.8	ug/L		15	07/30/21 14:45	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-39				Sampled:	07/24/21 (	06:39
Name:	41. Room 128 - Classroom Faucet West				Received:	07/28/21	11:27
Alias:	WMS-128-CF-17				Matrix:	Drinking V	Vater - Regular Sample
arameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
otal Metals - PIA	<u> </u>						
Copper	200	ug/L		1300	07/30/21 14:47	TJJ	EPA 200.8 REV 5.4
ead	1.3	ug/L		15	07/30/21 14:47	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-40				Sampled:	07/24/21 (	06:39
Name:	42. Room 128 - Classroom Faucet East				Received:	07/28/21	11:27
Alias:	WMS-128-CF-18				Matrix:	Drinking V	Vater - Regular Sample
arameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA	<u>7</u>						
Copper	160	ug/L		1300	07/30/21 14:48	TJJ	EPA 200.8 REV 5.4
.ead	2.6	ug/L		15	07/30/21 14:48	TJJ	EPA 200.8 REV 5.4
Sample:	EG05581-41				Sampled:	07/24/21 (	06:44
Name:	44. Room 129 - Classroom Faucet East				Received:	07/28/21	11:27
Aliae:	WMS-129-CE-20				Matrix:	Drinking V	Vater - Regular Sample

Alias: WMS-129-CF-20

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	140	ug/L		1300	07/30/21 14:50	TJJ	EPA 200.8 REV 5.4
Lead	1.6	ug/L		15	07/30/21 14:50	TJJ	EPA 200.8 REV 5.4



Name:

#### **ANALYTICAL RESULTS**

Sample: EG05581-42

45. Room 129 - Classroom Faucet West

Alias: WMS-129-CF-21

Sampled: 07/24/21 06:44

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	210	ug/L		1300	07/30/21 14:51	TJJ	EPA 200.8 REV 5.4
Lead	2.1	ug/L		15	07/30/21 14:51	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-43

Name: 46. Room 129 - Classroom Faucet South

Alias: WMS-129-CF-22

Sampled: 07/24/21 06:44

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>							
Copper	120	ug/L		1300	07/30/21 14:53	TJJ	EPA 200.8 REV 5.4
Lead	2.3	ug/L		15	07/30/21 14:53	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-44

Name: 47. Room 130 - Classroom Faucet North

Alias: WMS-130-CF-23

Sampled: 07/24/21 06:39

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	270	ug/L		1300	07/30/21 15:02	TJJ	EPA 200.8 REV 5.4
Lead	7.8	ug/L		15	07/30/21 15:02	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-45

Name: 48. Room 130 - Classroom Faucet East

Alias: WMS-130-CF-24

**Sampled:** 07/24/21 06:39

Received: 07/28/21 11:27

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	220	ug/L		1300	07/30/21 15:03	TJJ	EPA 200.8 REV 5.4
Lead	3.2	ug/L		15	07/30/21 15:03	TJJ	EPA 200.8 REV 5.4



Sample: EG05581-46

Name: 49. Room 130 - Classroom Faucet South

Alias: WMS-130-CF-25

Sampled: 07/24/21 06:39

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>							
Copper	280	ug/L		1300	07/30/21 15:05	TJJ	EPA 200.8 REV 5.4
Lead	20	ug/L		**15	07/30/21 15:05	TJJ	EPA 200.8 REV 5.4
Sample: EG055	81-47				Sampled:	07/24/21 (	06:18
<b>Name:</b> 51. Ro	om 111 - Classroom Faucet				Received:	07/28/21 1	1:27
Alias: WMS-	111-CF-27				Matrix:	Drinking V	Vater - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method	
Total Metals - PIA								
Copper	160	ug/L		1300	07/30/21 15:06	TJJ	EPA 200.8 REV 5.4	
Lead	1.3	ug/L		15	07/30/21 15:06	TJJ	EPA 200.8 REV 5.4	

Sample: EG05581-48

Name: 54. Boys Locker Room - Electric Water Cooler

Alias: WMS-BLR-EWC-16

Sampled: 07/24/21 06:58 Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method
Total Metals - PIA							
Copper	180	ug/L		1300	07/30/21 15:08	TJJ	EPA 200.8 REV 5.4
Lead	2.0	ug/L		15	07/30/21 15:08	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-49

Name: 55. Girls Locker Room - Electric Water Cooler

Alias: WMS-GLR-EWC-17

Sampled: 07/24/21 07:01

Received: 07/28/21 11:27

Matrix: Drinking Water - Regular Sample

Parameter	Result	Result Unit Qualifier MCL Ar		Analyzed	Analyst	Method	
Total Metals - PIA							
Copper	230	ug/L		1300	07/30/21 15:09	TJJ	EPA 200.8 REV 5.4
Lead	19	ug/L		**15	07/30/21 15:09	TJJ	EPA 200.8 REV 5.4

Customer #: www.pdclab.com Page 16 of 21



Sample: EG05581-50

Sampled: 07/24/21 07:08

56. Room 134 Orchestra - Classroom Faucet Name:

Received: 07/28/21 11:27

WMS-134-CF-30 Alias:

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	ICL Analyzed Analyst Me		Method
<u>Total Metals - PIA</u>							
Copper	150	ug/L		1300	07/30/21 15:11	TJJ	EPA 200.8 REV 5.4
Lead	72	ug/L		**15	07/30/21 15:11	TJJ	EPA 200.8 REV 5.4

Sample: EG05581-51

Name: 57. Cafeteria - Electric Water Cooler.

Received: 07/28/21 11:27

WMS-CAF-EWC-18 Drinking Water - Regular Sample Alias: Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed	Analyst	Method	
Total Metals - PIA								
Copper	230	ug/L		1300	07/30/21 15:12	TJJ	EPA 200.8 REV 5.4	
Lead	7.8	ug/L		15	07/30/21 15:12	TJJ	EPA 200.8 REV 5.4	

Sample: EG05581-52

Name: 17. Hall by 136 - Electric Water Cooler

WNS-H136-EWC-9 Alias:

**Sampled:** 07/24/21 06:16 Received: 07/28/21 11:27

Sampled: 07/24/21 07:34

Drinking Water - Regular Sample Matrix:

Parameter	Result	Unit	Qualifier	MCL	Analyzed Analyst		Method
Total Metals - PIA							
Copper	92	ug/L		1300	07/30/21 15:21	TJJ	EPA 200.8 REV 5.4
Lead	4.9	ug/L		15	07/30/21 15:21	TJJ	EPA 200.8 REV 5.4

Page 17 of 21 Customer #: www.pdclab.com



#### **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

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Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

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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

Eni Mossie

Certified by: Erin Lane, Project Manager





MINITONY SOAN DELLE

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

#### **CHAIN OF CUSTODY RECORD**

STATE WHERE SAMPLE COLLECTED MO

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CLIENT	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	NUMBER	2000000 000	DJECT LOC		PURCHASI	E ORDER #	(3) A	NALYSIS REC	QUESTED	4	(FOR LAB USE ONLY)
Engineering Surveys & Services	L14571		Colu	mbia,	MO							ET-MC581 CT
ADDRESS	PHONE	NUMBER		E-MAIL		i	HIPPED				LOGIN#	EG05581-SZ
1113 Fay Street	573-44	573-449-2646 jlehmen@ess-in				7-16	-21				LOGGE	
CITY STATE	SAMPLER (PLEASE PRIN	Τ)				MATRIX		3			CLIENT:	
ZIP Columbia, M	O Josh Leh					DW- DRINKING W GW- GROUND W	VATER	*			PROJEC	
CONTACT PERSON	SAMPLER'S					WWSL- SLUDGE NAS- NON AQUE LCHT-LEACHATE	ous solid	3			PROJ. M	
Josh Lehmen	SIGNATURE					OIL-OIL SO-SOIL SOL-SOLID		3			CUSTOD	OY SEAL #:
SAMPLE DESCRIPTION  2 (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPL GRAB	COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	ž				REMARKS
west Middle School			Х					51				
									21			
	_											
											The second secon	
CHEMICAL PRESERVATION CODES: I - HCL 2 - H2SO4	3 – HNO3 4 – NA			_	RESERVED	7 – OTHER						
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARO	NORMAL RUSH (E)		DATE RES		6							nalysis, even though it may y's Sample Acceptance
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE  EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM		L				,		•		-		ort to all regulatory authorities.
RELINQUISAED BY: (SIGNATURE) DA		PECEIVE	D BY: (SIG	NATURE	<u> </u>	PROCEED	DATE		ALIFY RESUL		ENTS: (FOR LAB U	ISE ONLY)
(7) 1 (1 0 0	12/21	Z.		) T	_		TIME	1717	(8)		(i o i b i b i	, o_ o,
ful all	12:30 pM.	Tul	a.a		_		111012	2:31				
RELINQUISHED BY: (SIGNATURE)  DA		RECEIVE	D BY: (SIG	NATURE)	1		DATE	28-7	SAMPLE	E TEMPERA	TURE UPON RECE	2Ø.8 °c
TIN		Jud.	y	V	1		TIME	2:15	Chillis	BUCESS ST	TARTED PRIOR TO	
RELINQUISHED BY: (SIGNATURE)	7-28-21	RECEIVE	D BY: (SIG	NATURE)			DATE	128/2	SAMPLE	E(S) RECEIV	ED ON ICE NCE NONCONFOR	YORN
Indu TIN		V at	1100	, 9.	4		TIME	5:2	REPOR	T IS NEEDED		Y ORN)
0	•			/	Tar	X						Page 19 of 21

Location:	West Middle School
Sample Date:	7/24/2021
Sample Time:	Various
Sampled By:	Josh Lehmen and Derek Brester

Sample No.	Coding System	Description	Sample Collected
1	WMSKF-1	Kitchen - Faucet Southwest	7:32 AM
2	WMSKF-2	Kitchen - Faucet Southeast	7:32 AM
3	WMSKF-3	Kitchen - Faucet Center	7:32 AM
4	WMS-229-FACSF-1	Room 229 - Faucet North	7:27 AM
5	WMS-229-FACSF-2	Room 229 - Faucet East	7:27 AM
6	WMS-229-FACSF-3	Room 229 - Faucet South	7:27 AM
7	WMS-H227-EWC-1	Hall by 227 - Electric Water Cooler	7:25 AM
8	WMS-221-TLF-1	Room 221 - Faucet	7:27 AM
9	WMS-H222-EWC-2	Hall by 222 - Electric Water Cooler	7:19 AM
10	WMS-222-NSF-1	Nurses Office - Faucet	7:20 AM
11	WNS-H212-EWC-3	Hall by 212 - Electric Water Cooler	7:15 AM
12	WNS-H211-EWC-4	Hall by 211 - Electric Water Cooler - WATER OFF	No
13	WNS-H107-EWC-5	Hall by 107 - Electric Water Cooler	6:16 AM
14	WNS-H112-EWC-6	Hall by 112 - Electric Water Cooler	6:19 AM
15	WNS-H123-EWC-7	Hall by 123 - Electric Water Cooler	6:16 AM
16	WNS-H101-EWC-8	Hall by 101 - Electric Water Cooler	7:04 AM
17	WNS-H136-EWC-9	Hall by 136 - Electric Water Cooler	6:53 AM
18	WNS-136-CF-30	Room 136 - Classroom Faucet	7:00 AM
19	WNS-137-EWC-10	Room 137 - Electric Water Cooler	7:01 AM
20	WNS-135-EWC-11	Room 135 - Electric Water Cooler	6:55 AM
21	WNS-H125-EWC-12	Hall by 125 - Electric Water Cooler	6:24 AM
22	WNS-H130-EWC-13	Hall by 130 - Electric Water Cooler	6:36 AM
23	WNS-132-EWC-14	Room 132 - Electric Water Cooler	6:47 AM
24	WNS-133-EWC-15	Room 133 - Electric Water Cooler	6:18 AM
25	WMS-131-CF-1	Room 131 - Classroom Faucet North	6:18 AM
26	WMS-131-CF-2	Room 131 - Classroom Faucet East	12:00 AM
27	WMS-131-CF-3	Room 131 - Classroom Faucet South	6:20 AM
28	WMS-124-CF-4	Room 124 - Classroom Faucet North	6:22 AM
29	WMS-124-CF-5	Room 124 - Classroom Faucet East	6:22 AM
30	WMS-124-CF-6	Room 124 - Classroom Faucet South	6:22 AM
31	WMS-125-CF-7	Room 125 - Classroom Faucet North	6:30 AM
32	WMS-125-CF-8	Room 125 - Classroom Faucet South	6:30 AM
33	WMS-125-CF-9	Room 125 - Classroom Faucet - Sink Blocked	No
34	WMS-126-CF-10	Room 126 - Classroom Faucet East	6:32 AM
35	WMS-126-CF-11	Room 126 - Classroom Faucet West	6:32 AM
36	WMS-126-CF-12	Room 126 - Classroom Faucet North	6:32 AM
37	WMS-126-CF-13	Room 126 - Classroom Faucet East	6:27 AM
38	WMS-127-CF-14	Room 127 - Classroom Faucet South	6:26 AM
39	WMS-127-CF-15	Room 127 - Classroom Faucet West	6:26 AM
40	WMS-128-CF-16	Room 128 - Classroom Faucet North	6:39 AM

41	WMS-128-CF-17	Room 128 - Classroom Faucet West	6:39 AM
42	WMS-128-CF-18	Room 128 - Classroom Faucet East	6:39 AM
43	WMS-128-CF-19	Room 128 - Classroom Faucet - Only 3 Sinks	No
44	WMS-129-CF-20	Room 129 - Classroom Faucet East	6:44 AM
45	WMS-129-CF-21	Room 129 - Classroom Faucet West	6:44 AM
46	WMS-129-CF-22	Room 129 - Classroom Faucet South	6:44 AM
47	WMS-130-CF-23	Room 130 - Classroom Faucet North	6:39 AM
48	WMS-130-CF-24	Room 130 - Classroom Faucet East	6:39 AM
49	WMS-130-CF-25	Room 130 - Classroom Faucet South	6:39 AM
50	WMS-130-CF-26	Room 130 - Classroom Faucet - Only 3 Sinks	No
51	WMS-111-CF-27	Room 111 - Classroom Faucet	6:18 AM
52	WMS-123-CF-28	Room 123 - Classroom Faucet - WATER OFF	No
53	WMS-123-CF-29	Room 123 - Classroom Faucet - WATER OFF	No
54	WMS-BLR-EWC-16	Boys Locker Room - Electric Water Cooler	6:58 AM
55	WMS-GLR-EWC-17	Girls Locker Room - Electrc Water cooler	7:01 AM
56	WMS-134-CF-30	Room 134 Orchestra - Classroom Faucet	7:08 AM
57	WMS-CAF-EWC-18	Cafeteria - Electric Water Cooler	7:34 AM
· · · · · · · · · · · · · · · · · · ·	·	·	·



#### FIRST FLUSH RESAMPLE

#### **ANALYTICAL RESULTS**

Sample: EL04058-AR

Name: 20. Room 135 - Electric Water Cooler

Alias: WNS-135-EWC-11

**Sampled:** 12/09/21 05:41

Received: 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier Pre	pared Dilutio	on MRL	Analyzed	Analyst	Method
Total Metals - PIA								
Copper	170	ug/L	01/06/2	22 09:26 1	3.0	01/06/22 14:56	KMC	EPA 200.8 REV 5.4
Lead	16	ug/L	01/06/2	22 09:26 1	1.0	01/06/22 14:56	KMC	EPA 200.8 REV 5.4

Sample: EL04058-AS

Name: 49. Room 130 - Classroom Faucet South

Alias: WMS-130-CF-25

**Sampled:** 12/09/21 05:45 **Received:** 12/20/21 15:10

Matrix: Drinking Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Copper	320	ug/L	(	01/06/22 09:26	1	3.0	01/06/22 14:58	KMC	EPA 200.8 REV 5.4
Lead	1.3	ug/L	(	01/06/22 09:26	1	1.0	01/06/22 14:58	KMC	EPA 200.8 REV 5.4

Sample: EL04058-AT

Name: 55. Girls Locker Room - Electric Water Cooler

Alias: WMS-GLR-EWC-17

**Sampled:** 12/09/21 05:40 **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	100	ug/L	(	01/06/22 09:26	1	3.0	01/06/22 14:59	KMC	EPA 200.8 REV 5.4
Lead	3.0	ug/L	(	01/06/22 09:26	1	1.0	01/06/22 14:59	KMC	EPA 200.8 REV 5.4

Sample: EL04058-AU

Name: 56. Room 134 Orchestra - Classroom Faucet

Alias: WMS-137-CF-30

 Sampled:
 12/09/21 05:47

 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	170	ug/L	01/06/22 09:26	1	3.0	01/06/22 15:01	KMC	EPA 200.8 REV 5.4
Lead	74	ug/L	01/06/22 09:26	1	1.0	01/06/22 15:01	KMC	EPA 200.8 REV 5.4



Pace Analytical Services, LLC 2231 W. Altorfer Drive Peoria, IL 61615 (800)752-6651

April 07, 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 2 sample(s) the laboratory received on 4/5/22 2:50 pm and logged in under work order FD00512. 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.

Erin Lane Project Manager

(309)683-1767

erin.lane@pacelabs.com

Ini Mosane

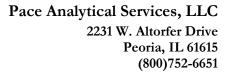


#### **SAMPLE RECEIPT CHECK LIST**

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

	Work Order FD00512
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
NO	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided

Customer #: 72-100995 www.pacelabs.com





**Sample:** FD00512-02

Sampled: 03/31/22 12:14

Name: Room 134 Orchestra - Classroom Faucet

**Received:** 04/05/22 14:50

Alias: WMS 56

Parameter	Result	Unit	Qualifier Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>								
Copper	88	ug/L	04/06/22 09:32	1	3.0	04/06/22 15:55	KMC	EPA 200.8 REV 5.4
Lead	15	ug/L	04/06/22 09:32	1	1.0	04/06/22 15:55	KMC	EPA 200.8 REV 5.4



Pace Analytical Services, LLC 2231 W. Altorfer Drive Peoria, IL 61615 (800)752-6651

#### **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

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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

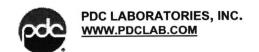
Mosane

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/COM				

#### **CHAIN OF CUSTODY RECORD**

STATE WHERE SAMPLE COLLECTED MO

Page 6 of 7

		HLIGHTED ARE											
CLIENT	PROJECT N	NUMBER		ECT LOCATION		PURCHASE	ORDER#	(3	ANAL	YSIS REQ	UESTED		(FOR LAB USE ONLY)
Engineering Surveys & Services	L14571		Colun	nbia, M	0								-000517-da
ADDRESS	PHONE NU			E-MAIL		DATE SH		4					LOGIN#
1113 Fay Street		jlehmen@ess-inc.com		.com	4/1/22							OGGED BY:	
STATE OLD I NAC OF CO.	SAMPLER (PLEASE PRINT)					MATRIX T	AND DESCRIPTIONS	ead					PROJECT:
Columbia, MO 65201	Kyran Bur	ks			WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER								PROJ. MGR.:
CONTACT PERSON	SAMPLER'S SIGNATURE					WWSL-SLUDGE NAS-NON AQUEOU LCHT-LEACHATE OIL-OIL SO-SOIL	JS SOLID	and					CUSTODY SEAL #:
Josh Lehmen						SO-SOIL SOL-SOLID		oer 8					
SAMPLE DESCRIPTION  (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	COLLECTED	TIME	SAMPLE GRAB		ATRIX YPE	BOTTLE	PRES CODE CLIENT PROVIDED	Copper					REMARKS
Various Samples From Various Schools (See attached sheet)	bottle	bottle	X					6	9				West Middle
Please provide separate reports for each school													School
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CHEMICAL PRESERVATION CODES: I – HCL 2 – H2SO4 3 -	- HNO3 4 - NAOI	H 5 – NA	28203	6 - UNPRESE	RVED	7 – OTHER		L					
TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE					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.								
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOV	E:	4	D DV (215	ATUDE:	-	PROCEED W		SIS AND	QUALIF	Y RESULT			
7 RELINQUISHED BY: (SIGNATURE)  TIME	Apr22 226	By ut	ED BY: (SIGN	J-			TIME	2:2	22	8		MENTS: (F	OR LAB USE ONLY)
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RELINQUISHED BY (SIGNATURE)  DATE  TIME	477	RECEIVE	D BY: (SIGN	ATURE)			DATE	las	122	SAMPLE	(S) RECEI	VED ON IC	PRIOR TO RECEIPT  CE  ICONFORMANT  Y OR NO
, , , , ,	450	vous	BY	lan				14	50	DATE A	ND TIME TA	AKEN FRO	OM SAMPLE BOTTLE YES, by KE

OF \_\_\_\_\_ 3/3/2021

Sampl School е Abbrevia Numb **School Name** tion Description er HICKMAN HIGH SCHOOL HHS 58 Room 208 - Classroom Faucet North HHS 60 Room 208 - Classroom Faucet South HICKMAN HIGH SCHOOL HICKMAN HIGH SCHOOL HHS 65 Room 212 - Classrom Faucet West HHS 66 Room 212 - Classroom Faucet Teacher Desk HICKMAN HIGH SCHOOL 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 90 Room 117 - Classroom Faucet North HICKMAN HIGH SCHOOL HHS 92 HICKMAN HIGH SCHOOL HHS Room 117 - Classroom Faucet South 99 Room 112- Classroom Faucet Center HICKMAN HIGH SCHOOL HHS HICKMAN HIGH SCHOOL HHS 102 Room 112- Classroom Faucet Workbench HHS 103 Room 110 - Classroom Faucet HICKMAN HIGH SCHOOL HHS 104 Room 109- Office Faucet HICKMAN HIGH SCHOOL FLD 19 Room 301 - Classroom Faucet FIELD ELEMENTARY SCHOOL West Middle School did not receive WMS 20 Room 135 - Elecric Water Cooler 56 **WMS** Room 134 Orchestra - Classroom Faucet West Middle School 12:14 **EBES** 1 Kitchen Faucet Room 124 ELIOT BATTLE ELEMENTARY SCHOOL 51 Classroom Faucet 339 **ELIOT BATTLE ELEMENTARY SCHOOL EBES** WBE 22 Room 203 - Classroom Faucet WEST BOULEVARD ELEMENTARY 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 ROCK BRIDGE ELEMENTARY SCHOOL RBE Room 213 - Classroom Faucet 26 Room 220 - Classroom Faucet **ROCK BRIDGE ELEMENTARY SCHOOL RBE** ROCK BRIDGE ELEMENTARY SCHOOL RBE 28 Main Hallway - Electric Water Cooler 29 **ROCK BRIDGE ELEMENTARY SCHOOL** RBE Room 106 - Classroom Faucet 30 **ROCK BRIDGE ELEMENTARY SCHOOL** RBE Room 100F Nurse Office Faucet 31 Room 100F Nurse Bathroom Faucet ROCK BRIDGE ELEMENTARY SCHOOL RBE 32 **ROCK BRIDGE ELEMENTARY SCHOOL** RBE Work Room 100C Faucet 33 Work Room 100 C Bathroom Faucet **ROCK BRIDGE ELEMENTARY SCHOOL** RBE **ROCK BRIDGE ELEMENTARY SCHOOL** RBE 34 Hallway Room 100F - Electric Water Cooler 35 Room 302 - Classroom Faucet **ROCK BRIDGE ELEMENTARY SCHOOL** RBE RBE 36 Room 301 - Classroom Faucet ROCK BRIDGE ELEMENTARY SCHOOL 37 Room 304 - Classroom Faucet **ROCK BRIDGE ELEMENTARY SCHOOL** RBE **ROCK BRIDGE ELEMENTARY SCHOOL** RBE 38 Room 308 - Classroom Faucet 39 **ROCK BRIDGE ELEMENTARY SCHOOL** Room 309 - Classroom Faucet RBE 40 **ROCK BRIDGE ELEMENTARY SCHOOL** RBE Room 310 - Classroom Faucet RBE 41 Room 311 - Classroom Faucet **ROCK BRIDGE ELEMENTARY SCHOOL** 

03/31/22

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	egd 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 Vise Certification Program Manager, Environmental Services Program

Missouri Department of Natural Resources