REPORT OF DRINKING WATER SAMPLING FOR LEAD CONTENT:

ARMSTRONG ELEMENTARY SCHOOL
6255 HOWDERSHELL ROAD
HAZELWOOD, MO 63042

Hazelwood School District
"A Culture of High Expectations and Excellence!"

PREPARED FOR:

MR. DAVID DUDLEY
DIRECTOR OF MAINTENANCE
HAZELWOOD SCHOOL DISTRICT
15875 NEW HALLS FERRY RD
FLORISSANT, MISSOURI 63031

PREPARED BY:

ENPAQ, LLC
3130 GRAVOIS AVENUE
ST. LOUIS, MISSOURI 63139

JULY 2023

DOCUMENT TO BE RETAINED INDEFINITELY

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23-170
Drinking Water Sampling for Lead
Hazelwood School District
Armstrong Elementary School
6255 Howdershell Road
Hazelwood, MO 63042

EXECUTIVE SUMMARY

ENPAQ, LLC performed lead testing of multiple drinking fountain water sources at the Armstrong Elementary School located at 6255 Howdershell Road in Hazelwood, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD, and State of Missouri Regulations and Guidelines.

All inspectors involved with sampling activities had EPA-approved training in Lead. Credentials for our firm and the inspector collecting the samples are included in Attachment C to this document.

All samples were collected on a "first draw" basis. "First draw" is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate "worst-case scenario" conditions. As such, ENPAQ inspectors met at the school to collect water samples before the systems were used by staff or students. A second sample from each water source was collected as a "follow-up" sample basis. "Follow-up" sampling is achieved by allowing the water system to run for thirty (30) seconds after the first draw sampling. The intent of this sampling is to determine if lead contamination may be in the water lines connected to the water sources and not just at the fixture. The sampling was completed in accordance with the Missouri SB681 *Get the Lead Out of Schools Drinking Water Act* requirements. The Missouri SB681 *Get the Lead Out of Schools Drinking Water Act* and other regulatory agencies recommend that water sources run for at least thirty seconds and as long as two minutes prior to use to avoid settling within the water system.

Drinking water samples were collected from seventeen (17) different locations throughout Armstrong Elementary School during the sampling event. The water samples were collected from drinking fountains utilized for drinking activities at the campus. After sample collection, samples were immediately delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP-accredited and State of Missouri-licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Attachment A of this report.

Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum.

CONCLUSION/RECOMMENDATIONS

At this time, ENPAQ recommends that all water sources testing at 5.0 ppb or above be removed from service. These sources are subject to additional maintenance activities and remediation prior to use. Before being put back into service, it is recommended these sources be re-tested to confirm compliance with acceptable levels.

Remediation includes decreasing lead concentrations below 5 parts per billion using methods such as replacement of plumbing, solder, fittings, or fixtures, installation of filters and filter devices, or other effective methods in accordance with Missouri SB681 *Get the Lead Out of Schools Drinking Water Act.*

In addition, all sources will be subject to an ongoing maintenance program and re-testing at appropriate intervals. **Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum**.

Although no additional samples were identified above the action level, ENPAQ recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

APPENDIX A
SAMPLE LOCATIONS & RESULTS

Hazelwood School District
"A Culture of High Expectations and Excellence!"

Armstrong Elementary School
6255 Howdershell Road
Hazelwood, MO 63042

ENPAQ, LLC

Prep Day: 7/24/23

Sample Day: 7/25/23

To Lab -----> 7/25/23

* Reporting Limit

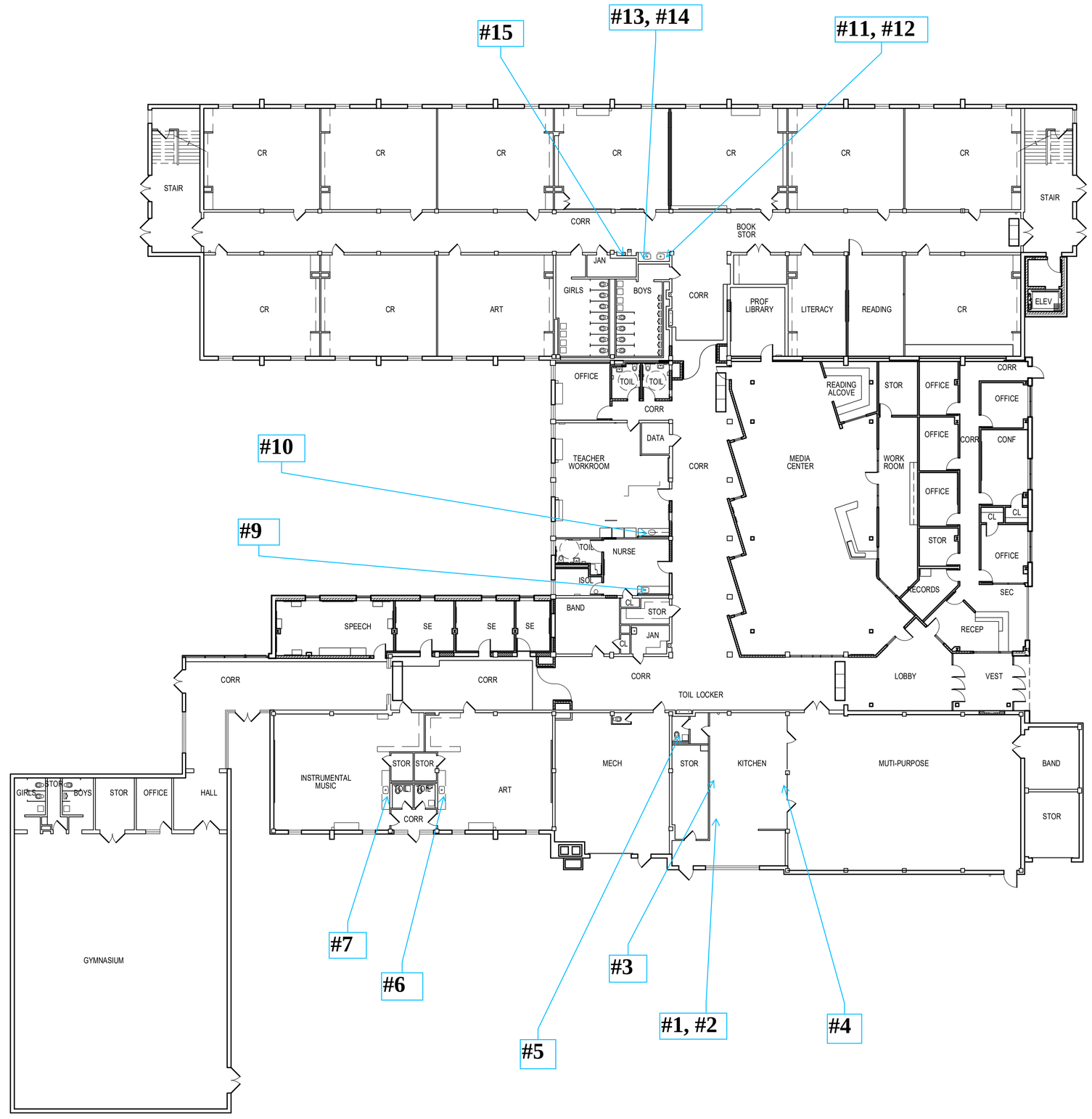
# Disabled =	**0**
# of Samples =	**34**
# > 10.0 ppb =	**0**
# > 5.0 ppb =	**0**

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
01	(A)	S	Kitchen Prep Sink- Left		1.0	1.1 ppb
	(B)	S	Kitchen Prep Sink- Left		1.0	<1.0 ppb
	(C)				1.0	N/A ppb
02	(A)	S	Kitchen Prep Sink- Right		1.0	<1.0 ppb
	(B)	S	Kitchen Prep Sink- Right		1.0	<1.0 ppb
03	(A)	S	Pot Filler		1.0	<1.0 ppb
	(B)	S	Pot Filler		1.0	<1.0 ppb
04	(A)	F	Cafe Fountain		1.0	<1.0 ppb
	(B)	F	Cafe Fountain		1.0	<1.0 ppb
05	(A)	F	Fountain O/S Café		1.0	<1.0 ppb
	(B)	F	Fountain O/S Café		1.0	<1.0 ppb
06	(A)	S	Room 1 Sink		1.0	<1.0 ppb
	(B)	S	Room 1 Sink		1.0	<1.0 ppb
07	(A)	S	Room 2 Sink		1.0	<1.0 ppb
	(B)	S	Room 2 Sink		1.0	<1.0 ppb
08	(A)	F	Gym Fountain		1.0	2.4 ppb
	(B)	F	Gym Fountain		1.0	<1.0 ppb
09	(A)	S	Nurse Office		1.0	<1.0 ppb
	(B)	S	Nurse Office		1.0	<1.0 ppb
10	(A)	S	Teachers Lounge		1.0	<1.0 ppb
	(B)	S	Teachers Lounge		1.0	<1.0 ppb
11	(A)	S	Sink O/S Room 6- Left		1.0	<1.0 ppb
	(B)	S	Sink O/S Room 6- Left		1.0	<1.0 ppb

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
12	(A)	F	Fountain/Sink O/S Room 6- Left		1.0	<1.0 ppb
	(B)	F	Fountain/Sink O/S Room 6- Left		1.0	<1.0 ppb
13	(A)	S	Sink O/S Room 6- Right		1.0	<1.0 ppb
	(B)	S	Sink O/S Room 6- Right		1.0	<1.0 ppb
14	(A)	F	Fountain/Sink O/S Room 6- Right		1.0	<1.0 ppb
	(B)	F	Fountain/Sink O/S Room 6- Right		1.0	<1.0 ppb
15	(A)	F	Fountain O/S Room 6		1.0	<1.0 ppb
	(B)	F	Fountain O/S Room 6		1.0	<1.0 ppb
16	(A)	S	2nd Floor Sink		1.0	<1.0 ppb
	(B)	S	2nd Floor Sink		1.0	<1.0 ppb
17	(A)	F	2nd Floor Fountain		1.0	<1.0 ppb
	(B)	F	2nd Floor Fountain		1.0	<1.0 ppb

Sample ID Coding Key:

F = Fountain
S = Sink
(A) = 1st Sample
(B) = 2nd Sample (30 Seconds Later)
(C) = 3rd Sample (3 Minutes Later)



NORTH

1ST FLOOR PLAN

0 4' 8' 16' 32'

TRi ARCHITECTS
1790 S. Brentwood Blvd.
St. Louis, Missouri 63144

ARMSTRONG ELEMENTARY SCHOOL

HAZELWOOD SCHOOL DISTRICT, ST. LOUIS COUNTY, MISSOURI
21-100 03-09-2021

NORTH

2ND FLOOR PLAN

0 4' 8' 16' 32'

TRi ARCHITECTS
1790 S. Brentwood Blvd.
St. Louis, Missouri 63144

ARMSTRONG ELEMENTARY SCHOOL

HAZELWOOD SCHOOL DISTRICT, ST. LOUIS COUNTY, MISSOURI
21-100 03-09-2021

APPENDIX B
LABORATORY ANALYSIS

August 30, 2023

Tony Hagerty
ENPAQ, LLC
3130 Gravois Ave
St. Louis, MO 63118
TEL: (314) 449-1976
FAX:

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Hazelwood SD/23-170 Armstrong Elementary School **WorkOrder:** 23071727

Dear Tony Hagerty:

TEKLAB, INC received 34 samples on 7/25/2023 11:18:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Report Contents

Client: ENPAQ, LLC
Work Order: 23071727
Client Project: Hazelwood SD/23-170 Armstrong Elementary School
Report Date: 30-Aug-23

This reporting package includes the following:

Client: ENPAQ, LLC **Work Order:** 23071727

Client Project: Hazelwood SD/23-170 Armstrong Elementary School **Report Date:** 30-Aug-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: ENPAQ, LLC **Work Order:** 23071727

Client Project: Hazelwood SD/23-170 Armstrong Elementary School **Report Date:** 30-Aug-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: ENPAQ, LLC

Work Order: 23071727

Client Project: Hazelwood SD/23-170 Armstrong Elementary School

Report Date: 30-Aug-23

Cooler Receipt Temp: N/A °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: ENPAQ, LLC **Work Order:** 23071727

Client Project: Hazelwood SD/23-170 Armstrong Elementary School **Report Date:** 30-Aug-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: ENPAQ, LLC **Work Order:** 23071727

Client Project: Hazelwood SD/23-170 Armstrong Elementary School **Report Date:** 30-Aug-23

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
23071727-001A	01A	NELAP		1.0	**1.1**	µg/L	1	08/26/2023 17:12	07/25/2023 0:00
23071727-002A	01B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 17:34	07/25/2023 0:00
23071727-003A	02A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 17:37	07/25/2023 0:00
23071727-004A	02B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 17:41	07/25/2023 0:00
23071727-005A	03A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 17:45	07/25/2023 0:00
23071727-006A	03B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 17:48	07/25/2023 0:00
23071727-007A	04A	NELAP		1.0	**< 1.0**	µg/L	1	08/29/2023 12:53	07/25/2023 0:00
23071727-008A	04B	NELAP		1.0	**< 1.0**	µg/L	1	08/29/2023 12:57	07/25/2023 0:00
23071727-009A	05A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:26	07/25/2023 0:00
23071727-010A	05B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:31	07/25/2023 0:00
23071727-011A	06A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:58	07/25/2023 0:00
23071727-012A	06B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:35	07/25/2023 0:00
23071727-013A	07A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:40	07/25/2023 0:00
23071727-014A	07B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:44	07/25/2023 0:00
23071727-015A	08A	NELAP		1.0	**2.4**	µg/L	1	08/28/2023 20:49	07/25/2023 0:00
23071727-016A	08B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 20:53	07/25/2023 0:00
23071727-017A	09A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:25	07/25/2023 0:00
23071727-018A	09B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:29	07/25/2023 0:00
23071727-019A	10A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:34	07/25/2023 0:00
23071727-020A	10B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:38	07/25/2023 0:00
23071727-021A	11A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:56	07/25/2023 0:00
23071727-022A	11B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:24	07/25/2023 0:00
23071727-023A	12A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:29	07/25/2023 0:00
23071727-024A	12B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:33	07/25/2023 0:00
23071727-025A	13A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:38	07/25/2023 0:00
23071727-026A	13B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:43	07/25/2023 0:00
23071727-027A	14A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:42	07/25/2023 0:00
23071727-028A	14B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:47	07/25/2023 0:00
23071727-029A	15A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 20:51	07/25/2023 0:00
23071727-030A	15B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 21:23	07/25/2023 0:00
23071727-031A	16A	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 22:54	07/25/2023 0:00
23071727-032A	16B	NELAP		1.0	**< 1.0**	µg/L	1	08/28/2023 21:47	07/25/2023 0:00
23071727-033A	17A	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 21:31	07/25/2023 0:00
23071727-034A	17B	NELAP		1.0	**< 1.0**	µg/L	1	08/26/2023 21:36	07/25/2023 0:00

Receiving Check List

http://www.teklabinc.com/

Client: ENPAQ, LLC
Work Order: 23071727
Client Project: Hazelwood SD/23-170 Armstrong Elementary School
Report Date: 30-Aug-23

Carrier: Anthony Hagerty
Received By: MBP

Completed by: Lindsey Maddox
On: 27-Jul-23

Reviewed by: Ellie Hopkins
On: 27-Jul-23

Pages to follow: Chain of custody 4 Extra pages included 6

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	N/A
Type of thermal preservation?	None ☑	Ice ☐	Blue Ice ☐	Dry Ice ☐	
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - lmaddox - 7/27/2023 11:05:12 AM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 4 Workorder # 23071727

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: ENPAQ, LLC
Address: 3130 Gravois Ave.
City/State/Zip: Collinsville, IL 62234
Contact: Anthony Hagerty Phone: (314) 449-1976
Email: tony.hagerty@enpaqconsulting.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☒ NO ICE NA °C
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments: Armstrong Elementary School
Please Report in PPB

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER	SAMPLE COLLECTOR'S NAME
Hazelwood SD/ 23-170	Anthony Hagerty

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED
23071727-001	01A	7/25/23	Aqueous	X									
-002	01B		Aqueous										
-003	02A		Aqueous										
-004	02B		Aqueous										
-005	03A		Aqueous										
-006	03B		Aqueous										
-007	04A		Aqueous										
-008	04B		Aqueous										
-009	05A		Aqueous										
-010	05B		Aqueous										
			Aqueous										

Relinquished By	Date/Time	Received By	Date/Time
A Hagerty	7/25/23	Morgan Petit	7/25/23 1118

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 4 Workorder # 23071727

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: ENPAQ, LLC
Address: 3130 Gravois Ave.
City/State/Zip: Collinsville, IL 62234
Contact: Anthony Hagerty Phone: (314) 449-1976
Email: tony.hagerty@enpaqconsulting.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments: Armstrong Elementary School
Please Report in PPB

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER: Hazelwood SD/ 23-170
SAMPLE COLLECTOR'S NAME: Anthony Hagerty

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED
23071727-011	06 A	7/25/23	Aqueous	X									
-012	06 B		Aqueous										
-013	07 A		Aqueous										
-014	07 B		Aqueous										
-015	08 A		Aqueous										
-016	08 B		Aqueous										
-017	09 A		Aqueous										
-018	09 B		Aqueous										
-019	10 A		Aqueous										
-020	10 B		Aqueous										
			Aqueous										

Relinquished By	Date/Time	Received By	Date/Time
A Hagerty	7/25/23	Maryann Peters	7/25/23 1118

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Print PDF

CHAIN OF CUSTODY

 Workorder # 23071727

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: ENPAQ, LLC
Address: 3130 Gravois Ave.
City/State/Zip: Collinsville, IL 62234
Contact: Anthony Hagerty Phone: (314) 449-1976
Email: tony.hagerty@enpaqconsulting.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE ______ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments: Armstrong Elementary School
Please Report in PPB

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER: Hazelwood SD/ 23-170
SAMPLE COLLECTOR'S NAME: Anthony Hagerty (signature)

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ______ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other
23071727-021	11 A	7/25/23	Aqueous	X								
-022	11 B	|	Aqueous	|								
-023	12 A	|	Aqueous	|								
-024	12 B	|	Aqueous	|								
-025	13 A	|	Aqueous	|								
-026	13 B	|	Aqueous	|								
-027	14 A	|	Aqueous	|								
-028	14 B	|	Aqueous	|								
-029	15 A	|	Aqueous	|								
-030	15 B	|	Aqueous	|								
			Aqueous									

INDICATE ANALYSIS REQUESTED

Relinquished By	Date/Time	Received By	Date/Time
A Hagerty	7/25/23	Morgan Peter	7/25/23 1118

Print PDF

CHAIN OF CUSTODY

Pg 1 of 4 Workorder # 23071727

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: ENPAQ, LLC

Address: 3130 Gravois Ave.

City/State/Zip: Collinsville, IL 62234

Contact: Anthony Hagerty Phone: (314) 449-1976

Email: tony.hagerty@enpaqconsulting.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments: Armstrong Elementary School
Please Report in PPB

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER: Hazelwood SD/ 23-170

SAMPLE COLLECTOR'S NAME: Anthony Hagerty

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED
23071727-031	16 A	7/25/23	Aqueous	X									
032	16 B		Aqueous										
033	17 A		Aqueous										
034	17 B		Aqueous										
			Aqueous										
			Aqueous										
			Aqueous										
			Aqueous										
			Aqueous										
			Aqueous										
			Aqueous										

Relinquished By	Date/Time	Received By	Date/Time
A Hagerty	7/25/23	Morgan Pierce	7/25/23 1118

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Hazelwood School District

Armstrong Elementary School
6255 Howdershell Road
Hazelwood, MO 63042

ENPAQ, LLC

Prep Day: 7/24/23

Sample Day: 7/25/23

To Lab -----> 7/25/23

* Reporting Limit

to Test =
Disabled =
of Samples =
> 10.0 ppb =
> 0.5 ppb =

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
01	(A)	S	Kitchen Prep Sink- Left		1.0	ppb
	(B)	S	Kitchen Prep Sink- Left		1.0	1.0 ppb
	(C)				1.0	22.0 ppb
02	(A)	S	Kitchen Prep Sink- Right		1.0	135.0 ppb
	(B)	S	Kitchen Prep Sink- Right		1.0	ppb
03	(A)	S	Pot Filler		1.0	ppb
	(B)	S	Pot Filler		1.0	ppb
04	(A)	F	Cafe Fountain		1.0	ppb
	(B)	F	Cafe Fountain		1.0	ppb
05	(A)	F	Fountain O/S Café		1.0	ppb
	(B)	F	Fountain O/S Café		1.0	ppb
06	(A)	S	Room 1 Sink		1.0	ppb
	(B)	S	Room 1 Sink		1.0	ppb
07	(A)	S	Room 2 Sink		1.0	ppb
	(B)	S	Room 2 Sink		1.0	ppb
08	(A)	F	Gym Fountain		1.0	ppb
	(B)	F	Gym Fountain		1.0	ppb
09	(A)	S	Nurse Office		1.0	ppb
	(B)	S	Nurse Office		1.0	ppb
10	(A)	S	Teachers Lounge		1.0	ppb
	(B)	S	Teachers Lounge		1.0	ppb
11	(A)	S	Sink O/S Room 6- Left		1.0	ppb
	(B)	S	Sink O/S Room 6- Left		1.0	ppb

23071727

##

(Continuation Sheet)

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
12	(A)	F	Fountain/Sink O/S Room 6- Left		1.0	ppb
	(B)	F	Fountain/Sink O/S Room 6- Left		1.0	ppb
13	(A)	S	Sink O/S Room 6- Right		1.0	ppb
	(B)	S	Sink O/S Room 6- Right		1.0	ppb
14	(A)	F	Fountain/Sink O/S Room 6- Right		-	ppb
	(B)	F	Fountain/Sink O/S Room 6- Right		-	ppb
15	(A)	F	Fountain O/S Room 6		1.0	ppb
	(B)	F	Fountain O/S Room 6		1.0	ppb
16	(A)	S	2nd Floor Sink		1.0	ppb
	(B)	S	2nd Floor Sink		1.0	ppb
17	(A)	F	2nd Floor Fountain		1.0	ppb
	(B)	F	2nd Floor Fountain		1.0	ppb
18	(A)				1.0	ppb
	(B)				1.0	ppb
19	(A)				1.0	ppb
	(B)				1.0	ppb
20	(A)				1.0	ppb
	(B)				1.0	ppb
21	(A)				1.0	ppb
	(B)				1.0	ppb
22	(A)				1.0	ppb
	(B)				1.0	ppb
23	(A)				1.0	ppb
	(B)				1.0	ppb
24	(A)				1.0	ppb
	(B)				1.0	ppb
25	(A)				1.0	ppb
	(B)				1.0	ppb

##

(Continuation Sheet)

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result

26	(A)				1.0	ppb
	(B)				1.0	ppb
27	(A)				1.0	ppb
	(B)				1.0	ppb
28	(A)				1.0	ppb
	(B)				1.0	ppb
29	(A)				-	ppb
	(B)				-	ppb
30	(A)				-	ppb
	(B)				-	ppb
31	(A)				2.0	ppb
	(B)				1.0	ppb
32	(A)				-	ppb
	(B)				-	ppb
33	(A)				1.0	ppb
	(B)				1.0	ppb
34	(A)				1.0	ppb
	(B)				1.0	ppb
35	(A)				1.0	ppb
	(B)				1.0	ppb
36	(A)				1.0	ppb
	(B)				1.0	ppb
37	(A)				1.0	ppb
	(B)				1.0	ppb
38	(A)				1.0	ppb
	(B)				1.0	ppb
39	(A)				1.0	ppb
	(B)				1.0	ppb

##

(Continuation Sheet)

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
40	(A)				1.0	ppb

	(B)				1.0	ppb
41	(A)				1.0	ppb
	(B)				1.0	ppb
42	(A)				1.0	ppb
	(B)				1.0	ppb
43	(A)				1.0	ppb
	(B)				1.0	ppb
44	(A)				1.0	ppb
	(B)				1.0	ppb
45	(A)				1.0	ppb
	(B)				1.0	ppb
46	(A)				1.0	ppb
	(B)				1.0	ppb
47	(A)				1.0	ppb
	(B)				1.0	ppb
48	(A)				1.0	ppb
	(B)				1.0	ppb
49	(A)				1.0	ppb
	(B)				1.0	ppb
50	(A)				1.0	ppb
	(B)				1.0	ppb
51	(A)				1.0	ppb
	(B)				1.0	ppb
52	(A)				1.0	ppb
	(B)				1.0	ppb
53	(A)				1.0	ppb
	(B)				1.0	ppb

##

(Continuation Sheet)

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
54	(A)				1.0	ppb
	(B)				1.0	ppb

2801727

55	(A)				1.0	ppb
	(B)				1.0	ppb
56	(A)				1.0	ppb
	(B)				1.0	ppb
57	(A)				1.0	ppb
	(B)				1.0	ppb
58	(A)				1.0	ppb
	(B)				1.0	ppb
59	(A)				1.0	ppb
	(B)				1.0	ppb
60	(A)				1.0	ppb
	(B)				1.0	ppb
61	(A)				1.0	ppb
	(B)				1.0	ppb
62	(A)				1.0	ppb
	(B)				1.0	ppb
63	(A)				1.0	ppb
	(B)				1.0	ppb
64	(A)				1.0	ppb
	(B)				1.0	ppb
65	(A)				1.0	ppb
	(B)				1.0	ppb
66	(A)				1.0	ppb
	(B)				1.0	ppb
67	(A)				1.0	ppb
	(B)				1.0	ppb

##

(Continuation Sheet)

Source	Sample ID #	Sample Type	Sample Location	Source Notes	RL *	Lead Test Result
68	(A)				1.0	ppb
	(B)				1.0	ppb

Sample ID Coding Key:

F = Fountain

S = Sink

(A) = 1st Sample

(B) = 2nd Sample (30 Seconds Later)

(C) = 3rd Sample (3 Minutes Later)

7/11/07

APPENDIX C
CREDENTIALS

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

ENPAQ, LLC

2321 Rutger Street, Unit F
St. Louis, MO 63104

Issuance Date:	**2/10/2023**
Expiration Date:	**2/26/2025**
License Number:	**190226-004574**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Anthony W. Hagerty

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**10/17/2022**
Expiration Date:	**10/31/2024**
License Number:	**161031-300005062**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

COLLEGE FOR

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Anthony Hagerty

3959 McDonald Ave, St. Louis, MO 63116

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - **190510**
Examination Date: 3/7/2022
CEUs: 0.8

Christopher C. King PhD
Director, Center for Environmental Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104
(314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

James T. Earle

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**7/30/2022**
Expiration Date:	**7/30/2024**
License Number:	**180730-300005561**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

COLLEGE FOR

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

James Earle

7484 Ahern Ct., University City, MO 63130

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - **117401**
Examination Date: 3/7/2022
CEUs: 0.8

Christopher C. King PhD
Director, Center for Environmental Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104
(314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Zachary A. Haselhorst

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**3/1/2022**
Expiration Date:	**3/1/2024**
License Number:	**160229-300004899**

Richard W. Moore
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

COLLEGE FOR

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Zachary Haselhorst

209 E 5th St, Trenton, IL 62293

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - **117400**

Examination Date: 3/7/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104

(314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

State of Missouri
Department of Natural Resources

Certificate of Approval
for Chemical Laboratory Service

This is to certify that

Teklab, Incorporated

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 930

Date Issued December 13, 2021

Expiration Date January 31, 2025

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

Laboratory Certification Officer, Environmental Services Program
Missouri Department of Natural Resources

MISSOURI DEPARTMENT OF NATURAL RESOURCES

DRINKING WATER LABORATORY

CERTIFIED PARAMETER LIST

This is to certify that

Teklab, Incorporated

located at

5445 Horseshoe Lake Road, Collinsville, IL 62234

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

EPA 335.4
Total Cyanide

EPA 353.2
Nitrate, Nitrite, Total Nitrate and Nitrite

EPA 245.1
Mercury

EPA 200.7
Barium, Beryllium, Cadmium, Chromium, Copper, Nickel

EPA 200.8
Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Thallium

SM4500F-C
Fluoride

SM4500NO2-B
Nitrite

Teklab, Incorporated

Expiration Date: January 31, 2025

Missouri Certificate No.: 930

Original Certifying State: Illinois