REPORT OF DRINKING WATER SAMPLING FOR LEAD CONTENT AT:

GROUNDS BUILDING 705 CAMPUS DR. WENTZVILLE, MISSOURI 63385



PREPARED FOR:

MRS. ANGELA HAWKINS
DIRECTOR OF FACILITIES/SAFETY COORDINATOR
WENTZVILLE R-IV SCHOOL DISTRICT
101 SUPPORT SERVICE DRIVE
WENTZVILLE, MISSOURI 63385

PREPARED BY:

J.S. HELD, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK COLLINSVILLE, ILLINOIS 62234 (618) 343-3590

DECEMBER 2023

DOCUMENT TO BE RETAINED INDEFINITELY

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Wentzville, Missouri 63385

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EXECUTIVE SUMMARY



6 Meadow Heights Professional Park Drive Collinsville, IL 62234 | US

jsheld.com

December 28, 2023

Mrs. Angela Hawkins Director of Maintenance Wentzville R-IV School District 101 Support Service Drive O'Fallon, Missouri 63366

Subject: Results of Drinking Water Testing for Lead Content

Site(s): Grounds Building

705 Campus Dr

Wentzville, MO 63385

Dear Mrs. Hawkins,

On the morning of December 15th, 2023, J.S. Held, LLC performed lead testing of multiple water sources at the Grounds Building located at 705 Campus Dr in Wentzville, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD and State of Missouri Regulations and Guidelines. Work was performed in accordance with the newly amended Missouri Senate Bill 681.

All inspectors involved with sampling activities had EPA approved training in lead. Certifications for our firm and the inspector collecting the samples are included as Appendix C to this document.

All samples were collected on a "first draw" and "second 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. J.S. Held proposes to collect a second sample from each source as a "follow-up sample" per the Missouri Senate Bill 681 requirements. As such, J.S. Held inspector met at the building at 5:50 a.m. to collect water samples before the systems were used by staff or students. The State of Missouri 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 three (3) different locations throughout Grounds Building during the sampling event. The water samples were collected from drinking fountains and sinks potentially utilized for cooking or drinking activities at the campus. After sample collection, samples were immediately iced down and delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP accredited and State of Illinois licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Appendix A of this report.

The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 micrograms per liter (µg/L). The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 microgram of lead per liter (µg/L). This reporting value equates to 1.0 parts per billion (ppb) of lead. The USEPA action level for lead in drinking water is 15.0 ppb for PSW. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. Five (5) samples collected from the selected locations at the Grounds Building reported sample results which were less than the action level. This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results) The Missouri Senate Bill 1075 require potable plumbing fixtures to be less than 5.0 ppb, the levels area above 5 ppb, then action shall be necessary to filter the water from the fixture or clean/repair/replace the fixture and retest until the levels are reported below 5 ppb.

All samples collected from the selected locations at the Grounds Building were less than the 5 ppb requirements under Senate Bill 681. The district will be required to provide notification to parents and staff within 7 days of receiving these sample results and results shall be posted on the district website within 2 weeks. Any samples reported over 5 ppb should be re-sampled on an annual basis at a minimum.

J.S. Held recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

J.S. Held is pleased to provide this information to Wentzville R-IV School District and we appreciate the opportunity to provide quality environmental consulting services. Please call us at (618) 343-3590 if you have any questions or to arrange a meeting to discuss.

Sincerely, J.S. Held, LLC

Jim Yasitis

Jim Yasitis

Vice President of Environmental Health & Safety

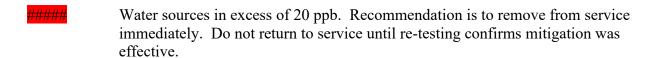
APPENDIX A SAMPLE LOCATIONS & RESULTS

TABLE 1

Drinking Water Sampling for Lead Content Wentzville R-IV School District Grounds Building

Sampled: December 15, 2023

<u>Samp</u>	le ID Location	Water Source	Results (ppb)
01A	Break Room	Sink	1.2
01B	Break Room	Sink	1.0
02	Break Room	Ice Machine	1.5
03A	Garage	Fountain	3.6
03B	Garage	Fountain	3.7



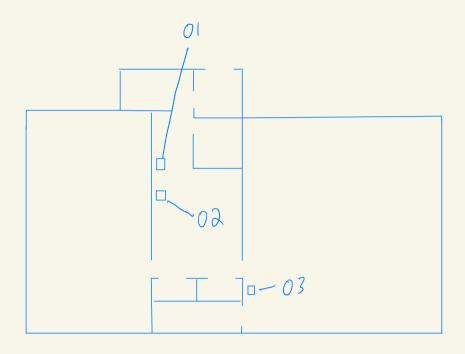
Water source is 5-19.9 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum.

Sample Legend

"A" = First Draw

"B" = Second Draw

Grounds Building



APPENDIX B LABORATORY ANALYSIS



December 27, 2023

Jim Yasitis J.S. Held #6 Meadow Heights Professional Park Collinsville, IL 62234

TEL: (618) 343-3590 FAX: (618) 343-3597

RE: Wentzville SD Water Sampling 231000104

Dear Jim Yasitis:

TEKLAB, INC received 5 samples on 12/15/2023 11:06:00 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

Project Manager

(618)344-1004 ex 41

mdarling@teklabinc.com

Mowin L. Darling I



WorkOrder: 23121275

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



Report Contents

http://www.teklabinc.com/

Client: J.S. Held Work Order: 23121275
Client Project: Wentzville SD Water Sampling 231000104 Report Date: 27-Dec-23

This reporting package includes the following:

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Definitions

http://www.teklabinc.com/

Client: J.S. Held Work Order: 23121275

Client Project: Wentzville SD Water Sampling 231000104 Report Date: 27-Dec-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)



Definitions

http://www.teklabinc.com/

Report Date: 27-Dec-23

Client: J.S. Held Work Order: 23121275

Client Project: Wentzville SD Water Sampling 231000104

Qualifiers

- # Unknown hydrocarbon
- C RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



Case Narrative

http://www.teklabinc.com/

Client: J.S. Held Work Order: 23121275

Client Project: Wentzville SD Water Sampling 231000104

Report Date: 27-Dec-23

Cooler Receipt Temp: NA °C

Locations

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email KKlostermann@teklabinc.com		Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



Accreditations

http://www.teklabinc.com/

Client: J.S. Held Work Order: 23121275

Client Project: Wentzville SD Water Sampling 231000104 Report Date: 27-Dec-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	8/31/2024	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



Laboratory Results

http://www.teklabinc.com/

Client: J.S. Held Work Order: 23121275

Client Project: Wentzville SD Water Sampling 231000104 Report Date: 27-Dec-23

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)							
Lead								
23121275-001	A 01A	NELAP	1.0	1.2	μg/L	1	12/19/2023 17:25	12/15/2023 5:45
23121275-002	A 01B	NELAP	1.0	1.0	μg/L	1	12/19/2023 17:54	12/15/2023 5:45
23121275-003	A 02	NELAP	1.0	1.5	μg/L	5	12/20/2023 22:43	12/15/2023 5:45
23121275-004	A 03A	NELAP	1.0	3.6	μg/L	1	12/19/2023 17:58	12/15/2023 5:45
23121275-005	A 03B	NELAP	1.0	3.7	μg/L	1	12/19/2023 18:02	12/15/2023 5:45



Receiving Check List

http://www.teklabinc.com/

Work Order: 23121275 Client: J.S. Held Client Project: Wentzville SD Water Sampling 231000104 Report Date: 27-Dec-23 Carrier: Brad Frisch Received By: HAW Completed by: Reviewed by: Mary E. Kemp On: On: 15-Dec-23 15-Dec-23 Mary E Kemp Ellie Hopkins Extra pages included Pages to follow: Chain of custody 1 Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No \square Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No \square Container/Temp Blank temperature in compliance? 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. No VOA vials ✓ Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? Yes NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? No 🗀

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.

CHAIN OF CUSTODY

pg. 1 of 1 Work Order \$ 23 12 1275

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

more Date / Time NDICATE ANALYSIS REQUESTED Y BOBS FOR LAB USE ONLY Samples on Elbs Estarice X Noice Comments Grounds Bulling Please report in ppb. Received پلا ید 又 rada × Preserved in: 13 Lab (Md).c\Z ojech) Sludge MATRIX lios Lab Metas يد х reast gnishninG ید Mater Ome # and Type of Containers ° Are there any required reporting limits to be met on the requested analysis? If yes, please provide oz B POSHEN HOPIN 11:06Am • Are these samples known to be involved in litigation? If yes, a surcharge will apply. 🛘 Yes HCF Sample Collector's Name Date / Time POSTH Phone: 6/8-343-3590 1658-848-819 HOSM EONH 12-51-23 又 × X SERGNU × × Lab Use Onto Sample Identification | Date/Time Sampled Brad Frisch Billing Instructions 12-15-23 5:45Am 6 Meadow Heights Prof Park * Are these samples known to be hazardous?

Ves

No City / State / Zip: Collinsuille, IL 62234 E-Mail: james. yasitisajsheld.com 0 | | ☐ 3 Day (50% Surcharge) Standard ☐ 1-2 Day (100% Surcharge) 20 034 038 810 08 Relinquished By Project Name / Number Wentzuille SD Water Sampling limits in comment section. M Yes J.S. Held Jim Pasitis Results Requested 23/2/275 8 88 8 231000104 Contact: Address: □ Other

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

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APPENDIX C CREDENTIALS

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley M. Frisch

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:

160229-300004900



Daves J. Nichelson

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

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

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Brad Frisch

2668 Kettering Court, Saint Charles, MO 63303

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

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - 117395

Christopher C. Kinc

Director, Center for Environmental Education and Training

Examination Date: 3/7/2022

CEUs: 0.8

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.

Lie Hand	Chief, Public Drinking Mater Branch Water Protection Program Department of Natural Resources	Director, Environmental Solvices Program
930	May 26, 2016	January 31, 2017
Certification No.	Date Issued	Expiration Date

Evaluation Officer, Environmental Services Program

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, Illinois

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.

METALS

EPA 200.7 – Aluminum, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Silver, Sodium, Zinc;
 EPA 200.8 – Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Zinc;
 EPA 245.1 – Mercury; SM 3112B – Mercury;

INORGANIC NONMETALLIC CONSTITUENTS

EPA 353.2 – Nitrate, Nitrite; SM 4500Cl-G – Residual Free Chlorine; SM 4500CN-E – Cyanide; SM 4500F-C – Fluoride; SM 4500H+-B – pH; SM 4500NO2-B – Nitrite; SM 4500P-E – Orthophosphate as P; SM 4500Si-E – Silica;

PHYSICAL & AGGREGATE PROPERTIES

SM 2120B - Color; SM 2130B - Turbidity; SM 2320B - Alkalinity; SM 2340B - Hardness; SM 2340C - Hardness; SM 2510B - Conductivity; SM 2550B - Temperature; EPA 180.1 - Turbidity;

AGGREGATE ORGANIC CONSTITUENTS

SM 5310C - Total Organic Carbon; SM 5310C - Dissolved Organic Carbon

Expiration Date: January 31, 2017
Missouri Certificate No.: 930
Original Certifying State: Illinois