

February 6, 2024

Kathy Oetterer
Franklin County R-II School District
3128 Highway Y
New Haven, MO 63068

RE: Drinking Water Sampling Report
Franklin County R-II School District
3128 Highway Y
New Haven, MO 63068
Project Number: 923446

Ms. Oetterer,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for drinking water sampling completed at the Franklin County R-II School District (FSD) in New Haven, Missouri. The sampling was requested and approved by Ms. Kathy Oetterer of FSD. Drinking water sampling was completed by FSD staff of all potential drinking water sources, sources used in food preparation, cleaning, and utensil cleaning. Drinking water sampling was completed in accordance with the requirements set forth in Missouri Senate Bill #681/662 known as the "Get the Lead Out of School Drinking Water Act".

METHODOLOGY

On January 16th, 2024, Ms. Kathy Oetterer completed self-sample testing of eleven (11) sources throughout FSD. Samples were collected as 'First Draw' samples after the fixtures had remained unused for a minimum period of 8 hours. Samples were collected in dedicated, laboratory-provided 250-milliliter plastic sample containers. Sample location information and photographic documentation are noted in the attached table.

Samples were shipped to Teklab, Inc. (Teklab) of Collinsville, Illinois for analysis using EPA method 200.8. Teklab is approved for sample analysis by the Missouri Department of Natural Resources (MDNR) under certification number 00930. A copy of the laboratory analytical results and Chain of Custody documentation are attached to this report.

RESULTS

Samples results were compared to the regulatory limit of 5 parts per billion (ppb) outlined in Missouri Senate Bill 681/662. Of the samples collected, one (1) of the eleven (11) contained lead concentrations at or above 5 ppb. Below is a list of samples containing elevated concentrations of lead.

Sample ID	Location	Type	Result (ug/L)
446-FSD	Kitchen	Kitchen Dish Sprayer	55.1

LIMITATIONS

All sampling was completed by FSD employees under the guidance of OCCU-TEC staff. OCCU-TEC cannot verify the accuracy of sampling activities completed onsite and assumes they were completed in accordance with the requirements and guidance provided by OCCU-TEC. OCCU-TEC recommends placing signage on all sources not sampled during this assessment that indicate the source is not to be used for drinking water.

RECOMMENDATIONS

The following recommendations are in accordance with Senate Bill 681/662.

In accordance with the requirements set forth in Missouri Bill 681/662, fixtures exhibiting lead concentrations above 5 ppb must be remediated by replacement of lead-containing pipes, solder, fittings or fixtures with lead-free components, or the school shall install filtration at each point where water enters the building until such time as the source can be remediated. If installing a filter is not feasible, the school shall provide purified water at each outlet inventoried.

Additionally, any water coolers or drinking water outlets identified by the United States Environmental Protection Agency (EPA) as not being lead-free under the federal Lead Contamination Control Act of 1988 shall be replaced unless the unit has been tested and determined to have lead results under 5 ppb.

Within two weeks after receiving test results, the school shall make all testing results and any lead remediation plans available on the school's website. The school shall notify parents and staff via written notification within seven (7) business days after receiving test results exceeding 5 ppb. The notification shall include the following:

- Test results and a summary explaining the results.
- A description of any remedial steps taken.
- A description of the general health effects of lead contamination and community specific resources.

- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.

For fixtures exhibiting results above 5 ppb, follow up random “Flush” sampling shall be conducted annually on at least 25-percent of the remediated outlets until all outlets have been remediated. Drinking water sampling shall be conducted annually and annual drinking water test results shall be submitted by the district to the Department of Health and Senior Services (MDHSS).

SIGNATURE(S)

OCCU-TEC appreciates the opportunity to provide the above referenced consulting services to the UCLS. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

Respectfully,



Nathaniel Jones
Environmental Technician





Kevin Heriford
Director EH&S Dept. (QA/QC)


ATTACHMENTS

Outlet Inventory with Analytical Results Summary
Laboratory Analytical Results and COC Documentation


Drinking Water Assessment
Franklin County R-II School District


ID:	446-FSD-01	Location:	K-4 Green Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bottle Filler		
		Result:	<1.0	ppb
Date Sampled:	1/16/2024	By:	KO	
Recommended Action:				


ID:	446-FSD-02	Location:	K-4 Green Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bubbler		
		Result:	<1.0	ppb
Date Sampled:	1/16/2024	By:	KO	
Recommended Action:				

ID:	446-FSD-03	Location:	5-8 Blue Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bottle Filler		
		Result:	<1.0	ppb
Date Sampled:	1/16/2024	By:	KO	
Recommended Action:				

Drinking Water Assessment
Franklin County R-II School District


ID:	446-FSD-04	Location:	5-8 Blue Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bubbler		
		Result:	<1.0	ppb
Date Sampled:		1/16/2024	By:	NJ
Recommended Action:				


ID:	446-FSD-05	Location:	Outside of Gym	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bubbler		
		Result:	<1.0	ppb
Date Sampled:		1/16/2024	By:	KO
Recommended Action:				

ID:	446-FSD-06	Location:	Outside of Gym	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bottle Filler		
		Result:	<1.0	ppb
Date Sampled:		1/16/2024	By:	KO
Recommended Action:				


Drinking Water Assessment
Franklin County R-II School District


ID:	446-FSD-07	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass	
		Description:		
		Kitchen Sink Pot Filler, Triple Basin		
		Result:	<1.0	ppb
Recommended Action:		Date Sampled:	1/16/2024	By: NJ

ID:	446-FSD-08	Location:	Kitchen	
Photo:		Manufacturer:	Unknown	
		Description:		
		Prep Sink		
		Result:	3.1	ppb
Recommended Action:		Date Sampled:	1/16/2024	By: KO

ID:	446-FSD-09	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass	
		Description:		
		Kitchen Dish Sprayer		
		Result:	55.1	ppb
Recommended Action:		Date Sampled:	1/16/2024	By: KO
		Replace Fixture/Unit and Resample		

Drinking Water Assessment
Franklin County R-II School District

ID:	446-FSD-10	Location:	Kitchen	
Photo:		Manufacturer:	Manitowoc	
		Description:		
		Ice Machine		
		Result:	<1.0	ppb
Date Sampled:		1/16/2024	By:	NJ
Recommended Action:				

ID:	446-FSD-11	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass	
		Description:		
		Pot Filler Sink Sprayer		
		Result:	<1.0	ppb
Date Sampled:		1/16/2024	By:	KO
Recommended Action:				

February 05, 2024

Justin Arnold
Occu-Tec
2604 NE Industrial Drive
Suite 230
North Kansas, MO 64117
TEL: (816) 810-3276
FAX:



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

RE: Franklin Co R-II School 923446

WorkOrder: 24011228

Dear Justin Arnold:

TEKLAB, INC received 11 samples on 1/18/2024 10:10:00 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,



Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

This reporting package includes the following:

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Receiving Check List	8
Chain of Custody	Appended

Client: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

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: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

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: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

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

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425

Phone (618) 344-1004

Fax (618) 344-1005

Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415

Phone (217) 698-1004

Fax (217) 698-1005

Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515

Phone (630) 324-6855

Fax

Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214

Phone (913) 541-1998

Fax (913) 541-1998

Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	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		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

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									
24011228-001A	446FSD-01	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 19:55	01/16/2024 17:01
24011228-002A	446FSD-02	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 19:59	01/16/2024 17:03
24011228-003A	446FSD-03	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 20:30	01/16/2024 17:07
24011228-004A	446FSD-04	NELAP		1.0	< 1.0	µg/L	1	02/03/2024 9:09	01/16/2024 17:10
24011228-005A	446FSD-05	NELAP		1.0	< 1.0	µg/L	1	02/03/2024 9:13	01/16/2024 17:16
24011228-006A	446FSD-06	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 20:38	01/16/2024 17:19
24011228-007A	446FSD-07	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 20:43	01/16/2024 17:26
24011228-008A	446FSD-08	NELAP		1.0	3.1	µg/L	1	02/03/2024 9:24	01/16/2024 17:28
24011228-009A	446FSD-09	NELAP		1.0	55.1	µg/L	5	02/01/2024 23:50	01/16/2024 17:31
24011228-010A	446FSD-10	NELAP		1.0	< 1.0	µg/L	1	02/03/2024 9:28	01/16/2024 17:35
24011228-011A	446FSD-11	NELAP		1.0	< 1.0	µg/L	1	02/01/2024 20:56	01/17/2024 8:10



Receiving Check List

<http://www.teklabinc.com/>

Client: Occu-Tec

Work Order: 24011228

Client Project: Franklin Co R-II School 923446

Report Date: 05-Feb-24

Carrier: FedEx

Received By: AMD

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

18-Jan-24

Amber Dilallo

On:

18-Jan-24

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

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

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials | <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers | <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA | <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA | <input checked="" type="checkbox"/> |

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. - amberdilallo - 1/18/2024 10:18:20 AM

