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May 29, 2024

Dr. Billie McGraw  
Hamilton R-II School District  
419 S. Hughes Street  
Hamilton, Missouri 64644

**RE: Drinking Water Sampling – Post Remediation Sampling**

Hamilton Elementary School  
7650 NW Harley Rd, Hamilton, MO 64644  
Project Number: 924073- HES

Dr. McGraw,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for post-remediation drinking water sampling completed on recently replaced sources at Hamilton Elementary School in Hamilton, Missouri. The sampling was requested and approved by Dr. Billie McGraw of Hamilton School District (HSD). HSD Staff completed sampling of sources that contained concentrations of lead above 5.0 parts per billion (ppb) and where fixtures had been subsequently replaced. 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 May 8<sup>th</sup>, 2024, Dr. Billie McGraw of Hamilton School District completed testing of two (2) sources at Hamilton Elementary School. Samples were collected as 'First Draw' samples after the fixtures had remained unused for a minimum period of 8 hours. Samples were collected in the laboratory provided dedicated 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. It should be noted that the attached sample analytical results contain the results for the High School which will be reported under a separate cover.

**RESULTS**

Sample results were compared to the regulatory limit of 5.0 parts per billion (ppb) or micrograms per liter (ug/L) outlined in Missouri Senate Bill 681/662. Zero (0) of the samples contained a lead concentration above 5 ppb. Below is a list of the samples collected and analytical results.

Sample ID	Location	Type	Result (ug/L)
073- HES-17	Kitchen	Kitchen Dish Sprayer	<1.0
073-HES-20	Kitchen	Right Dish Station Sink	<1.0

**LIMITATIONS**

All sampling was completed by HSD 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.

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 5.0 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 5.0 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-mentioned consulting services to the HSD. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

Respectfully,



Brittany Dickmeyer  
Safety Specialist



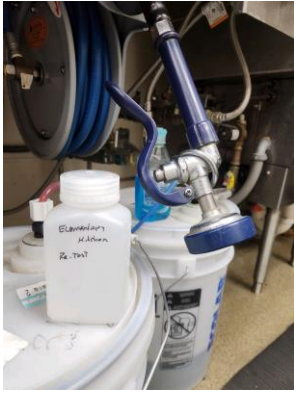
Kevin Heriford  
Director EH&S Dept.


**ATTACHMENTS**

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

## OUTLET INVENTORY WITH ANALYTICAL RESULTS SUMMARY

Drinking Water Assessment  
Hamilton Elementary School  
Hamilton School District

ID:	073-HES-17	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass	
		Description:		
		Kitchen Dish Sprayer, Lower		
		Result:	<1.0	ppb
Date Sampled:	5/8/2024	By:	BM	
Recommended Action:				

ID:	073-HES-20	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass	
		Description:		
		Dish Station, Right		
		Result:	<1.0	ppb
Date Sampled:	5/8/2024	By:	BM	
Recommended Action:				

# LABORATORY ANALYTICAL RESULTS AND COC DOCUMENTATION

May 23, 2024

Kevin Heriford  
Occu-Tec  
2604 NE Industrial Drive  
Suite 230  
North Kansas City, MO 64117  
TEL: (816) 231-5580  
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

**RE:** Hamilton R-II SD/ 924073

**WorkOrder:** 24051422

Dear Kevin Heriford:

TEKLAB, INC received 5 samples on 5/16/2024 2:10:00 PM 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,



Elizabeth A. Hurley  
Director of Customer Service  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)



## Report Contents

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

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**Client:** Occu-Tec

**Work Order:** 24051422

**Client Project:** Hamilton R-II SD/ 924073

**Report Date:** 23-May-24

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended



Client: Occu-Tec

Work Order: 24051422

Client Project: Hamilton R-II SD/ 924073

Report Date: 23-May-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:** 24051422

**Client Project:** Hamilton R-II SD/ 924073

**Report Date:** 23-May-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)

Client: Occu-Tec

Work Order: 24051422

Client Project: Hamilton R-II SD/ 924073

Report Date: 23-May-24

Cooler Receipt Temp: N/A °C

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**Locations**

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**Collinsville**

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425

**Phone** (618) 344-1004

**Fax** (618) 344-1005

**Email** jhriley@teklabinc.com

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**Collinsville Air**

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425

**Phone** (618) 344-1004

**Fax** (618) 344-1005

**Email** EHurley@teklabinc.com

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**Springfield**

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415

**Phone** (217) 698-1004

**Fax** (217) 698-1005

**Email** KKlostermann@teklabinc.com

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**Chicago**

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515

**Phone** (630) 324-6855

**Fax**

**Email** arenner@teklabinc.com

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**Kansas City**

**Address** 8421 Nieman Road  
Lenexa, KS 66214

**Phone** (913) 541-1998

**Fax** (913) 541-1998

**Email** jhriley@teklabinc.com

**Client:** Occu-Tec

**Work Order:** 24051422

**Client Project:** Hamilton R-II SD/ 924073

**Report Date:** 23-May-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	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		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



# Laboratory Results

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

Client: Occu-Tec

Work Order: 24051422

Client Project: Hamilton R-II SD/ 924073

Report Date: 23-May-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>									
<b>Lead</b>									
24051422-001A	073-HES-17	NELAP		1.0	< 1.0	µg/L	1	05/21/2024 15:57	05/08/2024 9:30
24051422-002A	073-HES-20	NELAP		1.0	< 1.0	µg/L	1	05/21/2024 16:11	05/08/2024 9:45
24051422-003A	073-PHS-25	NELAP		1.0	< 1.0	µg/L	1	05/21/2024 16:15	05/08/2024 10:15
24051422-004A	073-PHS-26	NELAP		1.0	< 1.0	µg/L	1	05/21/2024 16:26	05/08/2024 10:00
24051422-005A	073-PHS-27	NELAP		1.0	< 1.0	µg/L	1	05/21/2024 16:30	05/08/2024 10:30



# Receiving Check List

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

Client: Occu-Tec

Work Order: 24051422

Client Project: Hamilton R-II SD/ 924073

Report Date: 23-May-24

Carrier: UPS

Received By: NR

Completed by:

*Amber Dilallo*

Reviewed by:

*Ellie Hopkins*

On:

16-May-24

Amber Dilallo

On:

16-May-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 type="checkbox"/>             | No <input checked="" 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.

### CHAIN OF CUSTODY

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

Client: OCCU-TEC, Inc. Address: 2604 NE Industrial Dr, Suite 230 City/State/Zip: North Kansas City, MO 64117 Contact: K. Heriford Phone: 816-825-0628 Email: kheriford@occutec.com Fax: 926-994-3466				Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE <u>N/A</u> °C Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <b>FOR LAB USE ONLY</b> LAB NOTES:									
Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Client Comments: 5 ug/L									
PROJECT NAME/NUMBER Hamilton R-II SD/ 924073		SAMPLE COLLECTOR'S NAME		# and Type of Containers		INDICATE ANALYSIS REQUESTED							
RESULTS REQUESTED <input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)			BILLING INSTRUCTIONS ap@occutec.com			UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other		Lead by EPA 200.8					
Lab Use Only	Sample ID	Date/Time Sampled	Matrix										
24051422-001	073-HES-17	5-8-24 9:30	Aqueous	x		<input checked="" type="checkbox"/>							
002	073-HES-20	5-8-24 9:45	Aqueous	x		<input checked="" type="checkbox"/>							
003	073-PHS-25	5-8-24 -10:15	Aqueous	x		<input checked="" type="checkbox"/>							
004	073-PHS-26	5-8-24 10am	Aqueous	x		<input checked="" type="checkbox"/>							
005	073-PHS-27	5-8-24 10:50	Aqueous	x		<input checked="" type="checkbox"/>							
TE 006 Lsm	073-PHS-28		Aqueous	x		<input checked="" type="checkbox"/>							
Relinquished By			Date/Time		Received By				Date/Time				
[Blank]			[Blank]		[Signature] (USPS)				5/16/24 1410				

\*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