

September 6, 2023

Mr. Jason Samples Valley R-IV School District #1 Viking Drive Caledonia, MO 63631

RE: Drinking Water Sampling – Valley Preschool

#1 Viking Drive Caledonia, MO 63631 **Project Number: 923206**

Mr. Samples,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for drinking water sampling completed at Valley Preschool in Caledonia, Missouri. The sampling was requested and approved by Mr. Jason Samples of Valley R-IV School District (VSD). OCCU-TEC completed drinking water sampling of all potential drinking water sources, sources used in food preparation, 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 August 1st, 2023, Mr. Nathaniel Jones of OCCU-TEC completed testing of two (2) sources throughout Valley preschool. 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) or ug/L outlined in Missouri Senate Bill 681/662. Of the samples collected, one (1) of the two (2) contained lead concentrations at or above 5 ppb. Below is a list of samples containing elevated concentrations of lead.

206-VPS-01	Kitchen	Sink Faucet	6.1

LIMITATIONS

At the request of VSD, bathroom sinks and janitorial closet sinks were excluded from sampling. 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 VSD. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

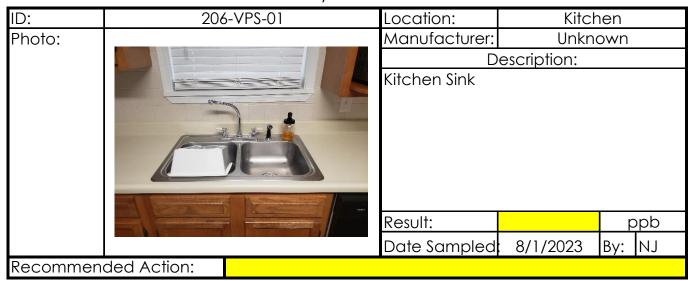
Respectfully,

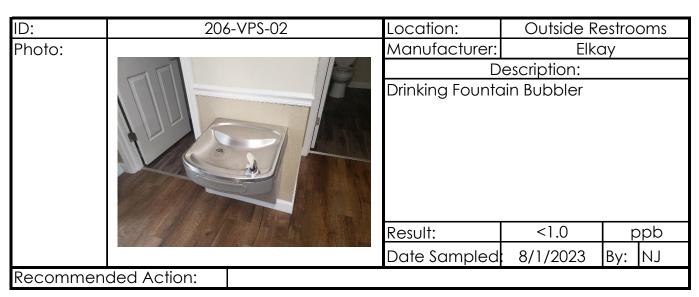
Nathaniel Jones Environmental Scientist Kevin Heriford Director EH&S Dept. (QA/QC)

ATTACHMENTS

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

Drinking Water Assessment Valley Preschool Valley School District







September 05, 2023

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

WorkOrder: 23080303

Dear Justin Arnold:

RE: 923206 VPS

TEKLAB, INC received 2 samples on 8/3/2023 11:50:00 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: 23080303
Client Project: 923206 VPS Report Date: 05-Sep-23

This reporting package includes the following:

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Definitions

http://www.teklabinc.com/

Client: Occu-Tec Work Order: 23080303

Client Project: 923206 VPS Report Date: 05-Sep-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/

Client: Occu-Tec Work Order: 23080303
Client Project: 923206 VPS Report Date: 05-Sep-23

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/

Work Order: 23080303

Report Date: 05-Sep-23

Client: Occu-Tec
Client Project: 923206 VPS

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						



Client: Occu-Tec

Client Project: 923206 VPS

Accreditations

http://www.teklabinc.com/

Work Order: 23080303

Report Date: 05-Sep-23

State	Dept	Cert#	NELAP Exp Date	Lab
Illinois	IEPA	100226	NELAP	Collinsville
Kansas	KDHE	E-10374	NELAP	Collinsville
Louisiana	LDEQ	05002	NELAP	Collinsville
Louisiana	LDEQ	05003	NELAP	Collinsville
Oklahoma	ODEQ	9978	NELAP	Collinsville
Arkansas	ADEQ	88-0966		Collinsville
Illinois	IDPH	17584		Collinsville
Iowa	IDNR	430		Collinsville
Kentucky	UST	0073		Collinsville
Missouri	MDNR	00930		Collinsville
Missouri	MDNR	930		Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Occu-Tec Work Order: 23080303

Client Project: 923206 VPS Report Date: 05-Sep-23

Lab ID: 23080303-001 Client Sample ID: 206-VPS-01

Matrix: DRINKING WATER Collection Date: 08/01/2023 10:34

	Analyses	Certification	RL Qua	ıl Result	Units	DF	Date Analyzed Batch
Lead		NELAP		6.1	μg/L	1	08/31/2023 23:44



Laboratory Results

http://www.teklabinc.com/

Client: Occu-Tec Work Order: 23080303

Client Project: 923206 VPS Report Date: 05-Sep-23

Lab ID: 23080303-002 Client Sample ID: 206-VPS-02

Matrix: DRINKING WATER Collection Date: 08/01/2023 10:35

	Analyses	Certification	RL Qual	Result	Units	DF	Date Analyzed Batch
Lead		NELAP		< 1.0	μg/L	1	09/01/2023 14:32



Receiving Check List

http://www.teklabinc.com/

Work Order: 23080303 Client: Occu-Tec Client Project: 923206 VPS Report Date: 05-Sep-23 Carrier: Crossroads Received By: TWM Mon Colei Completed by: Reviewed by: On: On: 03-Aug-23 04-Aug-23 Allison Colin Ellie Hopkins Pages to follow: Chain of custody Extra pages included 0 Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C NA **~** Dry Ice Chain of custody present? Yes **~** No 🗌 Chain of custody signed when relinquished and received? **~** Yes No L Yes 🗹 Chain of custody agrees with sample labels? No 🗀 **~** No 🗌 Samples in proper container/bottle? Yes **~** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes ~ No \square **~** No \square All samples received within holding time? Yes Field NA 🗸 Lab \square Reported field parameters measured: Yes 🗹 No 🗌 Container/Temp Blank temperature in compliance? Water – at least one vial per sample has zero headspace? Yes No 🗌 No VOA vials 🗸 **V** Water - TOX containers have zero headspace? **V** NA \square Water - pH acceptable upon receipt? **V** NPDES/CWA TCN interferences checked/treated in the field?

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

Samples were checked for turbidity and then preserved with nitric acid upon arrival at the laboratory.

Print PDF

CHAIN OF CUSTODY

Pg <u>l</u> of <u>l</u> Workorder # <u>23090303</u>

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

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	Kansas City, MO 64117				LA	B N	OTE	S:																	
Contact: Justin Arnol		Phone: 81	6-810-3276	<u> </u>																					
Email: jarnold@oc		Fax: 816-9	x: 816-994-3478				Client Comments:																		
Are these samples known to be involved in litigation? If yes, a surcharge Are these samples known to be hazardous? Are there any required reporting limits to be met on the requested analys limits in the comment section: PROJECT NAME/NUMBER SAMPLE CO			lo is?. If yes, please provide		<5ppb																				
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RES	Nathaniel Jo surcharge) harge)	BILLING INSTRUCTIONS			HNO3	NaOH	H2SO4	HCL	NaHSO4	TSP	Other	Lead by 200.8													
Lab Use Only	Sample ID	Date/Time	Sampled	Matrix																			┸		
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^{*}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