



Northeast Nodaway R-V Schools

126 South High School Avenue, PO Box 206

Ravenwood, MO 64479

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Brenda Dougan

Superintendent

bdougan@nen.k12.mo.us

Heidi Beatty

PK-12 Principal

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Chaim Jenkins

PK-12 Assistant Principal/AD

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September 6, 2023

Lead Testing Initial Test Results

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". Sampling of all potential drinking water sources, sources used in food preparation, cleaning, and utensil cleaning was conducted. The results from the first round of lead testing were received on 9/5/2023. In accordance with statute, these results and remediation plan are being communicated to parents and staff within seven business days. The sampling plan, testing results and lead remediation plans are available to the public on the school's website, www.nenr5.com.

Test Results and a summary of results:

- 25- Total test points samples
- 3 (12%)- Total samples above the action level of 5 parts per billion (ppb)
- 5- Total samples between <1.0 ppb and 4.9 ppb
- 17- Total samples <1.0 ppb

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, three (3) of the twenty-five (25) contained lead concentrations at or above 5 ppb. Below is a list of samples containing elevated concentrations of lead.

Location	Result
Kitchen dishwashing sink	9.1 ppb
Kitchen dishwashing sink	7.8 ppb
Kitchen handwashing sink	9.5 ppb

Remedial steps:

- Place "Not For Drinking" signs on the affected outlets.
- Remove the old gate valves and replace with lead-free ball valves.
- Replace the faucets if necessary.
- Install point of use filtration if necessary.
- Investigate the supply lines and replace if necessary.

The following websites have information on the health effects of lead:

<https://www.epa.gov/lead/what-are-some-health-effects-lead>

<https://www.cdc.gov/nceh/lead/prevention/health-effects.htm>

<https://health.mo.gov/living/environment/lead/>

Community specific resource:

Nodaway County Health Center

Nodawaypublichealth.org

2416 S Main St., Maryville, MO 64468

(660) 562-2755

September 5, 2023

Mrs. Brenda Dougan
Northeast Nodaway R-V School District
126 South High School Avenue
Ravenwood, MO 64479

RE: Drinking Water Sampling – Northeast Nodaway School District
126 South High School Avenue
Ravenwood, MO 64479
Project Number: 923222

Mrs. Dougan,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for drinking water sampling completed at Northeast Nodaway School District in Ravenwood, Missouri. The sampling was requested and approved by Mrs. Brenda Dougan of Northeast Nodaway R-V School District (NENSD). OCCU-TEC completed drinking water sampling 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 August 1st, 2023, Mrs. Brittany Dickmeyer of OCCU-TEC completed testing of twenty-five (25) sources throughout Northeast Nodaway School District. 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 micrograms per liter (ug/L) outlined in Missouri Senate Bill 681/662. Of the samples collected, three (3) of the twenty-five (25) contained lead concentrations at or above 5 ppb. Below is a list of samples containing elevated concentrations of lead.

Sample ID	Location	Type	Result (ppb)
222-NEN-09	NW side of kitchen NW wall left side.	Sink	9.1
222-NEN-10	NW side of Kitchen NW wall right side.	Sink	7.8
222-NEN-11	NW wall stand alone sink in kitchen	Sink	9.5

LIMITATIONS

At the request of NENSD, restroom 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.

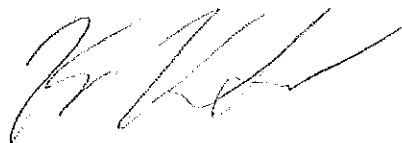
- A description of any remedial steps taken.
- A description of the general health effects of lead contamination and community specific resources.
- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.

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 NENSD. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

Respectfully,



Kevin Heriford
Director EH&S Dept.






Jeff Smith
Senior Project Manager (QA/QC)


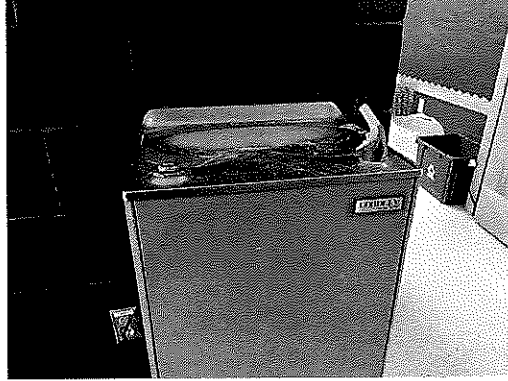

ATTACHMENTS

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


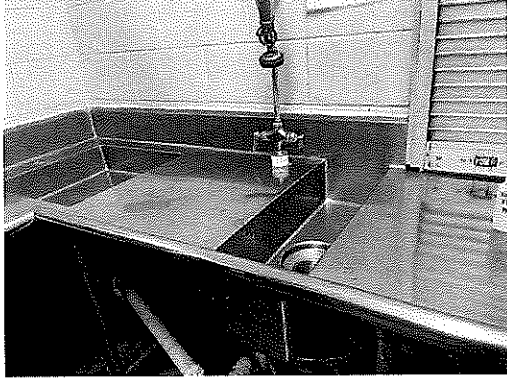
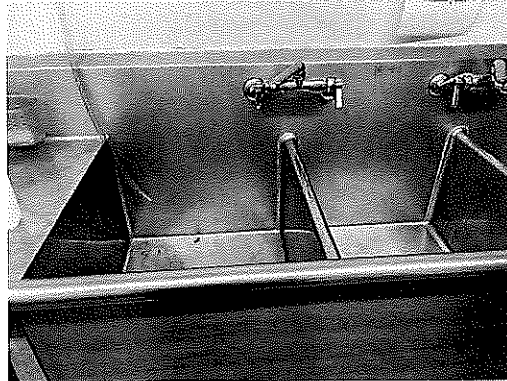
Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-01	Location:	Sink		
Photo:		Manufacturer:	Delta		
		Description:			
		Teacher's Lounge			
		Result:	<1.0	ppb	
Recommended Action:		Date Sampled:	8/1/2023	By:	BD
ID:	222-NEN-02	Location:	Sink		
Photo:		Manufacturer:	Sloan		
		Description:			
		Nurse's Office			
		Result:	<1.0	ppb	
Recommended Action:		Date Sampled:	8/1/2023	By:	BD
ID:	222-NEN-03	Location:	DFBF		
Photo:		Manufacturer:	Elkay		
		Description:			
		Located on E wall by gym.			
		Result:	<1.0	ppb	
Recommended Action:		Date Sampled:	8/1/2023	By:	BD

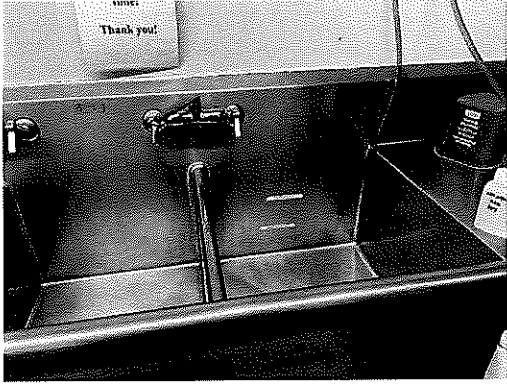


Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-04	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		Located on E wall by gym.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-05	Location:	DFB
Photo:		Manufacturer:	Cordley
		Description:	
		Next to Art Room.	
		Result:	4.9
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-06	Location:	DFBF
Photo:		Manufacturer:	Elkay
		Description:	
		Next to PE office.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD

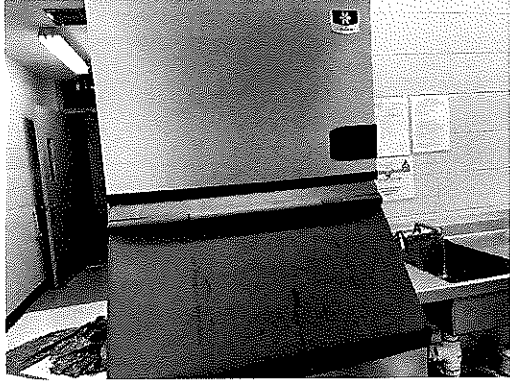


Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-07	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		<1.0	
		Result:	<1.0
Date Sampled:		8/1/2023	By: BD
Recommended Action:			
ID:	222-NEN-08	Location:	KDS
Photo:		Manufacturer:	T&S Brass
		Description:	
		NW side of Kitchen on W wall	
		Result:	3.5
Date Sampled:		8/1/2023	By: BD
Recommended Action:			
ID:	222-NEN-09	Location:	SNK
Photo:		Manufacturer:	Chicago Faucet
		Description:	
		NW side of Kitchen on NW wall left side.	
		Result:	9.1
Date Sampled:		8/1/2023	By: BD
Recommended Action:		Replace Fixture/Unit and Resample	

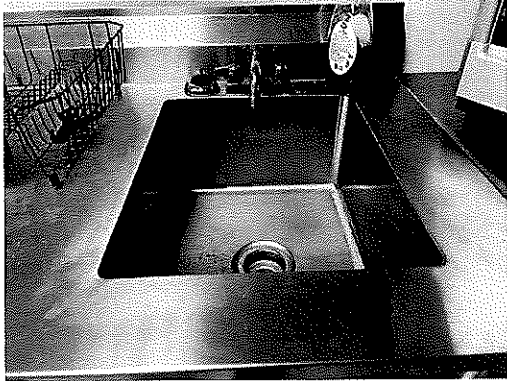


Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-10	Location:	SNK
Photo:		Manufacturer:	Chicago Faucet
		Description:	
		NW side of Kitchen on NW wall right side.	
		Result:	7.8
Recommended Action:		Replace Fixture/Unit and Resample	
Date Sampled: 8/1/2023 By: BD			
ID:	222-NEN-11	Location:	SNK
Photo:		Manufacturer:	Delta
		Description:	
		NW wall stand alone sink in kitchen.	
		Result:	9.5
Recommended Action:		Replace Fixture/Unit and Resample	
Date Sampled: 8/1/2023 By: BD			
ID:	222-NEN-12	Location:	SNK
Photo:		Manufacturer:	Chicago Faucet
		Description:	
		E wall next to ice machine in kitchen.	
		Result:	1.1
Recommended Action:		Replace Fixture/Unit and Resample	
Date Sampled: 8/1/2023 By: BD			




Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-13	Location:	Ice Machine
Photo:		Manufacturer:	Manitowoc
		Description:	
		E wall in kitchen. Machine was on upon arrival. Not first draw.	
		Result:	2.6 ppb
		Date Sampled:	8/1/2023 By: BD
Recommended Action:			
ID:	222-NEN-14	Location:	DFBF
Photo:		Manufacturer:	Elkay
		Description:	
		Ag Building lobby area.	
		Result:	<1.0 ppb
		Date Sampled:	8/1/2023 By: BD
Recommended Action:			
ID:	222-NEN-15	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		Ag Building lobby area.	
		Result:	<1.0 ppb
		Date Sampled:	8/1/2023 By: BD
Recommended Action:			


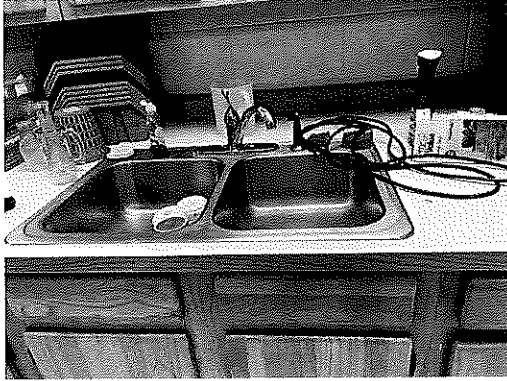

Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-16	Location:	SNK
Photo:		Manufacturer:	Unknown
		Description:	
		E wall of Ag Lobby.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-17	Location:	DFBF
Photo:		Manufacturer:	Elkay
		Description:	
		Ag Lobby	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-18	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		Ag Lobby	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD


Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-19	Location:	DFBF
Photo:		Manufacturer:	Elkay
		Description:	
		Elementary Restroom Area S wall.	
		Result:	<1.0
Date Sampled:		8/1/2023	By: BD
Recommended Action:			
ID:	222-NEN-20	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		Elementary Restroom area S wall.	
		Result:	<1.0
Date Sampled:		8/1/2023	By: BD
Recommended Action:			
ID:	222-NEN-21	Location:	DFBF
Photo:		Manufacturer:	Elkay
		Description:	
		Across from 6th grade classroom.	
		Result:	<1.0
Date Sampled:		8/1/2023	By: BD
Recommended Action:			

Drinking Water Assessment
Northeast Nodaway R-V School District

ID:	222-NEN-22	Location:	DFB
Photo:		Manufacturer:	Elkay
		Description:	
		Across from 6th grade classroom.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-23	Location:	SNK
Photo:		Manufacturer:	Delta
		Description:	
		Junior high math/science room. Sink on E side.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD
ID:	222-NEN-24	Location:	SNK
Photo:		Manufacturer:	Delta
		Description:	
		Junior high math/science room sink on W side.	
		Result:	<1.0
Recommended Action:		Date Sampled:	8/1/2023
		By:	BD

Drinking Water Assessment
 Northeast Nodaway R-V School District

ID:	222-NEN-25	Location:	SNK	
Photo:		Manufacturer:	Delta	
		Description:		
		Baseball concessions stand		
		Result:	2.9	ppb
		Date Sampled:	8/1/2023	By: BD
Recommended Action:				

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

RE: 923222 NEN

WorkOrder: 23080306

Dear Justin Arnold:

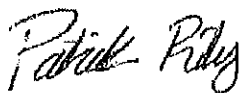
TEKLAB, INC received 25 samples on 8/3/2023 11:50:00 AM for the analysis presented in the following report.

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: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

This reporting package includes the following:

Cover Letter	1
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Chain of Custody	Appended

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

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)

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

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/>

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-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

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 Nicman 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: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-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



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-001
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-01
Collection Date: 08/01/2023 8:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:36	211141



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-002

Client Sample ID: 222-NEN-02

Matrix: DRINKING WATER

Collection Date: 08/01/2023 8:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:39	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-003
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-03
Collection Date: 08/01/2023 8:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:43	211141



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-004

Client Sample ID: 222-NEN-04

Matrix: DRINKING WATER

Collection Date: 08/01/2023 8:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:47	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-005
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-05
Collection Date: 08/01/2023 8:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		4.9	µg/L	5	08/31/2023 20:26	211167



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-006

Client Sample ID: 222-NEN-06

Matrix: DRINKING WATER

Collection Date: 08/01/2023 8:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:50	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-007
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-07
Collection Date: 08/01/2023 8:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 14:54	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-008
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-08
Collection Date: 08/01/2023 8:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		3.5	µg/L	1	09/01/2023 15:05	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-009
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-09
Collection Date: 08/01/2023 8:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		9.1	µg/L	1	09/01/2023 15:20	211141



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-010

Client Sample ID: 222-NEN-10

Matrix: DRINKING WATER

Collection Date: 08/01/2023 8:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		7.8	µg/L	1	09/01/2023 15:23	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-011
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-11
Collection Date: 08/01/2023 8:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		9.5	µg/L	1	09/01/2023 15:27	211141



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-012
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-12
Collection Date: 08/01/2023 9:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		1.1	µg/L	1	08/31/2023 19:31	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-013
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-13
Collection Date: 08/01/2023 9:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		2.6	µg/L	1	08/31/2023 19:35	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-014

Client Sample ID: 222-NEN-14

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 12:40	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-015
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-15
Collection Date: 08/01/2023 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 12:54	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-016

Client Sample ID: 222-NEN-16

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	08/31/2023 19:46	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-017
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-17
Collection Date: 08/01/2023 9:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 12:58	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-018

Client Sample ID: 222-NEN-18

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 13:02	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-019

Client Sample ID: 222-NEN-19

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 13:05	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-020
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-20
Collection Date: 08/01/2023 9:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	08/31/2023 21:07	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-021
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-21
Collection Date: 08/01/2023 9:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	09/01/2023 13:09	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-022
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-22
Collection Date: 08/01/2023 9:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	08/31/2023 21:14	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-023

Client Sample ID: 222-NEN-23

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	08/31/2023 21:18	211146



Laboratory Results

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Lab ID: 23080306-024

Client Sample ID: 222-NEN-24

Matrix: DRINKING WATER

Collection Date: 08/01/2023 9:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	08/31/2023 21:21	211146



Laboratory Results

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

Client: Occu-Tec
Client Project: 923222 NEN
Lab ID: 23080306-025
Matrix: DRINKING WATER

Work Order: 23080306
Report Date: 05-Sep-23
Client Sample ID: 222-NEN-25
Collection Date: 08/01/2023 9:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		2.9	µg/L	1	08/31/2023 21:25	211146



Receiving Check List

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

Client: Occu-Tec

Work Order: 23080306

Client Project: 923222 NEN

Report Date: 05-Sep-23

Carrier: Crossroads

Received By: TWM

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

On:

03-Aug-23

04-Aug-23

Amber Dilallo

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"/>			
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			NA <input checked="" type="checkbox"/>
<div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <i>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.</i> </div>					
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 - 8/3/2023 2:01:20 PM

CHAIN OF CUSTODY

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

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

Client: OCCU-TEC Inc.
 Address: 2604 NE Industrial Drive Suite 230
 City/State/Zip: North Kansas City, MO 64117
 Contact: Justin Arnold Phone: 816-810-3276
 Email: jarnold@occutec.com Fax: 816-994-3478

Client Comments:
 <5ppb

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: 923222
 SAMPLE COLLECTOR'S NAME: Brittany Dickmeyer

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	RESULTS REQUESTED		INDICATE ANALYSIS REQUESTED
				<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other	
2308030	222-NEN-01	8/1/23 835	Drinking Water	<input type="checkbox"/> 1-2 Day (100% Surcharge)	<input type="checkbox"/> 3 Day (50% Surcharge)	Lead by 200.8
002	222-NEN-02	8/1/23 837	Drinking Water			Other
003	222-NEN-03	8/1/23 841	Drinking Water			TSP
004	222-NEN-04	8/1/23 841	Drinking Water			NaHSO4
005	222-NEN-05	8/1/23 844	Drinking Water			MeOH
006	222-NEN-06	8/1/23 847	Drinking Water			HCL
007	222-NEN-07	8/1/23 847	Drinking Water			H2SO4
008	222-NEN-08	8/1/23 851	Drinking Water			NaOH
009	222-NEN-09	8/1/23 854	Drinking Water			HNO3
010	222-NEN-10	8/1/23 854	Drinking Water			UNP
011	222-NEN-11	8/1/23 857	Drinking Water			

Relinquished By: *[Signature]* Date/Time: 8/1/23 1400
 Received By: *[Signature]* Date/Time: 8/2/23 1400
[Signature] 8/2/23 1400
[Signature] 8/2/23 1400

*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

CHAIN OF CUSTODY

Pg 2 of 3 Workorder # 23080306

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

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

Client Comments:

<5ppb

Client: OCCU-TEC Inc, _____
 Address: 2604 NE Industrial Drive Suite 230 _____
 City/State/Zip: North Kansas City, MO 64117 _____
 Contact: Justin Arnold Phone: 816-810-3276
 Email: jarnold@occutec.com Fax: 816-994-3478

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: 923222
 SAMPLE COLLECTOR'S NAME: Brittany Dickmeyer

RESULTS REQUESTED		BILLING INSTRUCTIONS	
Lab Use Only	Sample ID	Date/Time Sampled	Matrix
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> 1-2 Day (100% Surcharge)		
<input type="checkbox"/> Other	<input type="checkbox"/> 3 Day (50% Surcharge)		

Lab Use Only	Sample ID	Date/Time Sampled	Matrix
23080306	222-NEN-12	8/11/23 901	Drinking Water
013	222-NEN-13	8/11/23 906	Drinking Water
014	222-NEN-14	8/11/23 912	Drinking Water
015	222-NEN-15	8/11/23 912	Drinking Water
016	222-NEN-16	8/11/23 914	Drinking Water
017	222-NEN-17	8/11/23 917	Drinking Water
018	222-NEN-18	8/11/23 917	Drinking Water
019	222-NEN-19	8/11/23 921	Drinking Water
020	222-NEN-20	8/11/23 921	Drinking Water
021	222-NEN-21	8/11/23 924	Drinking Water
022	222-NEN-22	8/11/23 924	Drinking Water

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8/12/23 1400	<i>[Signature]</i>	8/12/23 1400
<i>[Signature]</i>	8/12/23 1601	<i>[Signature]</i>	8-3-23 1150

# and Type of Containers	INDICATE ANALYSIS REQUESTED									
Other										
TSP										
NaHSO4										
MeOH										
HCL										
H2SO4										
NaOH										
HNO3										
UNP										
Lead by 200.8										

*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

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 Drive Suite 230
 City/State/Zip: North Kansas City, MO 64117
 Contact: Justin Arnold Phone: 816-810-3276
 Email: jarnold@occutec.com Fax: 816-994-3478

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: 923222
 SAMPLE COLLECTOR'S NAME: Brittany Dickmeyer

RESULTS REQUESTED: Standard 1-2 Day (100% Surcharge) 3 Day (50% Surcharge)
 Other:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix
23080300-23	222-NEN-23	8/1/23 932	Drinking Water
024	222-NEN-24	8/1/23 932	Drinking Water
025	222-NEN-25	8/1/23 942	Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water
			Drinking Water

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8/2/23 1400	<i>[Signature]</i>	8/02/23 1400
<i>[Signature]</i>	8/2/23 1600	<i>[Signature]</i>	8-2-23 1500

# and Type of Containers	INDICATE ANALYSIS REQUESTED
Lead by 200.8	
Other	
TSP	
NaHSO4	
MeOH	
HCL	
H2SO4	
NaOH	
HNO3	
UNP	

Client Comments: <5ppb

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

*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