

**REPORT OF DRINKING WATER SAMPLING FOR  
LEAD CONTENT:**



**Pemiscot County R3 School District**

*PREPARED FOR:*

**PEMISCOT R-3 SCHOOL  
DISTRICT  
1727 County HWY 536  
Caruthersville, MO 63830**

*PREPARED BY:*

**SEMO COMPLIANCE & REMEDIATION  
3349 COUNTY ROAD 484  
POPLAR BLUFF, MO 63901**

**FEBRUARY 2024**

**DOCUMENT TO BE RETAINED INDEFINITELY**

# TABLE OF CONTENTS

Drinking Water Sampling for Lead  
Pemiscot County R-3 School  
District  
1727 County Highway 536  
Caruthersville, MO 63830

EXECUTIVE SUMMARY

CONCLUSION/RECOMMENDATIONS

APPENDIX A .....Sample Location Mapping

APPENDIX B .....Laboratory Analysis

APPENDIX C .....Credentials

## EXECUTIVE SUMMARY

SEMO COMPLIANCE performed lead testing of multiple drinking fountain water sources at the Campus of Pemiscot R-3 located at 1727 County Highway 536 in Caruthersville, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD, and State of Missouri Regulations and Guidelines.

All inspectors involved with sampling activities had EPA-approved training in Lead. Credentials for our firm and the inspector collecting the samples are included in Attachment C to this document.

All samples were collected on a “first draw” basis. “First draw” is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate “worst-case scenario” conditions. As such, ENPAQ inspectors met at the school to collect water samples before the systems were used by staff or students. The sampling was completed in accordance with the Missouri SB681 *Get the Lead Out of Schools Drinking Water Act* requirements. The Missouri SB681 *Get the Lead Out of Schools Drinking Water Act*.

Drinking water samples were collected from nine (9) different locations throughout Pemiscot R-3 Campus during the sampling event. The water samples were collected from drinking fountains utilized for drinking activities at the campus. After sample collection, samples were immediately delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP-accredited and State of Missouri-licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Attachment A of this report.

**Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum.**

## CONCLUSION/RECOMMENDATIONS

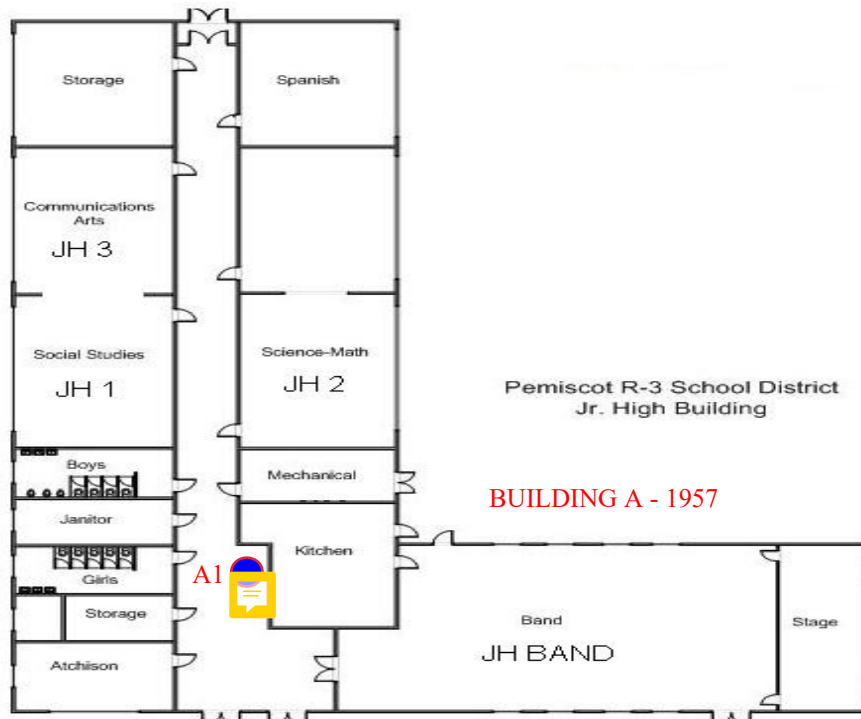
Semo Compliance recommends that all water sources testing at 5.0 ppb or above be removed from service. These sources are subject to additional maintenance activities and remediation prior to use. Before being put back into service, it is recommended these sources be re-tested to confirm compliance with acceptable levels. **The initial testing resulted in one (1) water source above the recommended level.**

Remediation includes decreasing lead concentrations below 5 parts per billion using methods such as replacement of plumbing, solder, fittings, or fixtures, installation of filters and filter devices, or other effective methods in accordance with Missouri SB681 *Get the Lead Out of Schools Drinking Water Act*. The water source that was above 5.0 ppb has been remediated and re-tested to meet the recommended level.

Any sources above the recommended level will be subject to an ongoing maintenance program and re-testing at appropriate intervals. Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum.

**Semo Compliance recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.**

**APPENDIX A**  
**SAMPLE LOCATION MAPPING**

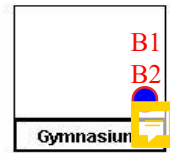


● = FOUNTAIN

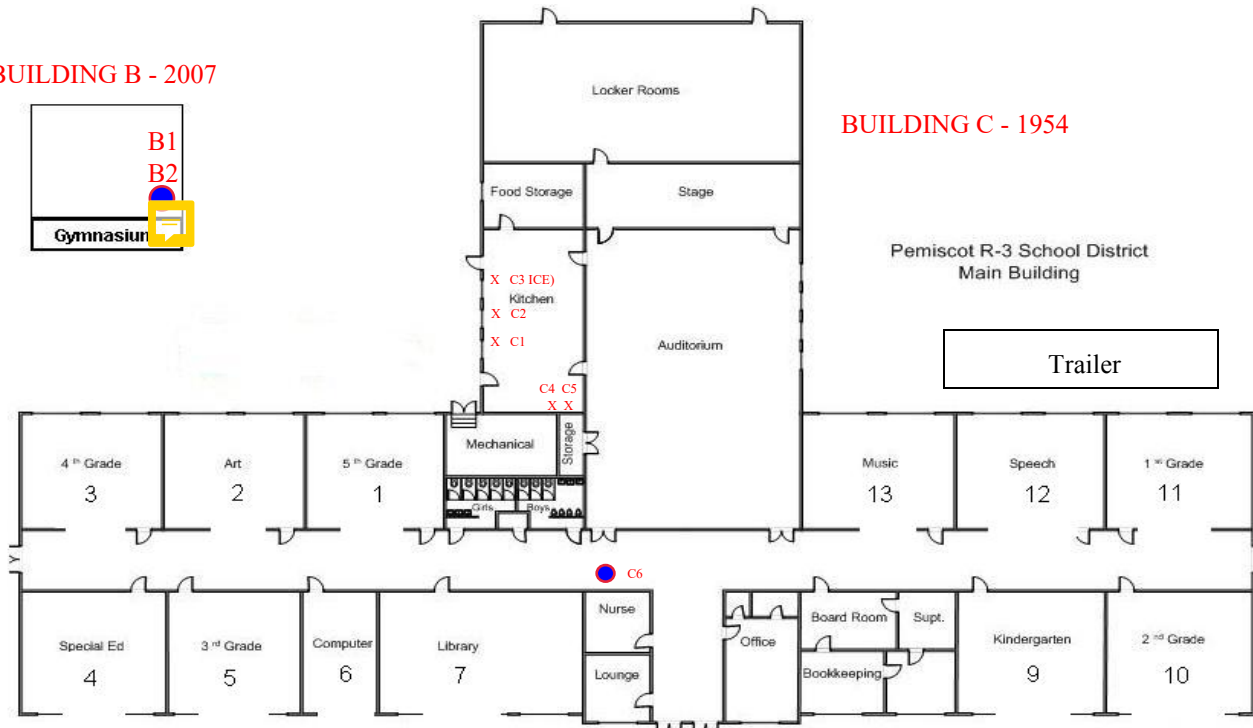
X = SINK

**BUILDING A - 1957**

**BUILDING B - 2007**



**BUILDING C - 1954**



**APPENDIX B**  
**LABORATORY ANALYSIS**

November 16, 2023

Matt Marshall  
Semo Compliance & Remediation  
3349 County Road 484  
Poplar Bluff, MO 63901  
TEL: (574) 718-9812  
FAX:



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

**RE:** Pemiscot R-3

**WorkOrder:** 23110525

Dear Matt Marshall:

TEKLAB, INC received 9 samples on 11/7/2023 10:25:00 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](mailto:patrickriley@teklabinc.com)





## Report Contents

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

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**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

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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	16
Chain of Custody	Appended

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-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:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-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:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**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

---

#### 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



## Accreditations

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-001

**Client Sample ID:** A-1

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/14/2023 9:12	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-002

**Client Sample ID:** B-1

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/13/2023 15:15	214439



# Laboratory Results

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

Client: Semo Compliance & Remediation

Work Order: 23110525

Client Project: Pemiscot R-3

Report Date: 16-Nov-23

Lab ID: 23110525-003

Client Sample ID: B-2

Matrix: DRINKING WATER

Collection Date: 11/04/2023 10:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/14/2023 9:16	214439





# Laboratory Results

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

**Client:** Semo Compliance & Remediation  
**Client Project:** Pemiscot R-3  
**Lab ID:** 23110525-004  
**Matrix:** DRINKING WATER

**Work Order:** 23110525  
**Report Date:** 16-Nov-23

**Client Sample ID:** C-1  
**Collection Date:** 11/04/2023 9:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		6.8	µg/L	1	11/14/2023 8:14	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation  
**Client Project:** Pemiscot R-3  
**Lab ID:** 23110525-005  
**Matrix:** DRINKING WATER

**Work Order:** 23110525  
**Report Date:** 16-Nov-23

**Client Sample ID:** C-2  
**Collection Date:** 11/04/2023 9:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/13/2023 14:46	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-006

**Client Sample ID:** C-3

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 9:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		1.5	µg/L	1	11/13/2023 14:50	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-007

**Client Sample ID:** C-4

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 9:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/13/2023 14:55	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-008

**Client Sample ID:** C-5

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 9:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/13/2023 14:59	214439



# Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Lab ID:** 23110525-009

**Client Sample ID:** C-6

**Matrix:** DRINKING WATER

**Collection Date:** 11/04/2023 9:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)</b>								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/13/2023 15:03	214439



## Receiving Check List

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23110525

**Client Project:** Pemiscot R-3

**Report Date:** 16-Nov-23

**Carrier:** UPS

**Received By:** HAW

**Completed by:**

*Amber Dilallo*

**Reviewed by:**

*Ellie Hopkins*

**On:**

07-Nov-23

Amber Dilallo

**On:**

08-Nov-23

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 <b>N/A</b>               |
| 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. - amberdilallo - 11/7/2023 1:45:54 PM

# CHAIN OF CUSTODY

pg. \_\_\_ of \_\_\_ Work order # 23110572

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

23110572  
TE Om  
11/7/23

**Client:** Semo Compliance & Remediation  
**Address:** 3349 County Road 484  
**City / State / Zip:** Poplar Bluff, MO 63901  
**Contact:** Matt Marshall **Phone:** \_\_\_\_\_  
**E-Mail:** mattmarshall1986@gmail.com **Fax:** \_\_\_\_\_

**Samples on:**  ICE  BLUE ICE  NO ICE N/A °C **LTG#** \_\_\_\_\_  
**Preserved in:**  LAB  FIELD **FOR LAB USE ONLY**  
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous? If yes, include details of the hazard.  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		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																											
<u>Pemiscot R-3</u> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		<u>Matt Marshall</u> Billing Instructions		# and Type of Containers								Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW Lead															
				UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER																						
Lab Use Only	Sample Identification	Date/Time Sampled																															
23110572	A-1	11-4-23 10:05am	X								X					X																	
002	B-1	11-4-23 10:00am	X								X					X																	
003	B-2	11-4-23 10:01am	X								X					X																	
004	C-1	11-4-23 9:48am	X								X					X																	
005	C-2	11-4-23 9:50am	X								X					X																	
006	C-3	11-4-23 9:52am	X								X					X																	
007	C-4	11-4-23 9:54am	X								X					X																	
008	C-5	11-4-23 9:55am	X								X					X																	
009	C-6	11-4-23 9:44am	X								X					X																	
Relinquished By		Date/Time		Received By		Date/Time																											
				<u>Harsh W... UBS</u>		<u>11/7/23 1025</u>																											



December 26, 2023

Matt Marshall  
Semo Compliance & Remediation  
3349 County Road 484  
Poplar Bluff, MO 63901  
TEL: (574) 718-9812  
FAX:



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

**RE:** Pemiscot CO R-3

**WorkOrder:** 23121013

Dear Matt Marshall:

TEKLAB, INC received 1 sample on 12/13/2023 10:25:00 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](mailto:patrickriley@teklabinc.com)



## Report Contents

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

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**Client:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-23

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**This reporting package includes the following:**

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Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
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**Client:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-23

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-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:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-23

**Cooler Receipt Temp:** 12.0 °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:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



## Laboratory Results

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

**Client:** Semo Compliance & Remediation

**Work Order:** 23121013

**Client Project:** Pemiscot CO R-3

**Report Date:** 26-Dec-23

**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>									
23121013-001A	C-1	NELAP		1.0	5.5	µg/L	1	12/15/2023 17:29	12/11/2023 11:30



# Receiving Check List

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

Client: Semo Compliance & Remediation

Work Order: 23121013

Client Project: Pemiscot CO R-3

Report Date: 26-Dec-23

Carrier: UPS

Received By: MEK

Completed by:

*Amber Dilallo*

Reviewed by:

*Ellie Hopkins*

On:

13-Dec-23

Amber Dilallo

On:

13-Dec-23

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                             | 12.0                     |
| 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 - 12/13/2023 11:15:18 AM





February 20, 2024

Matt Marshall  
Semo Compliance & Remediation  
3349 County Road 484  
Poplar Bluff, MO 63901  
TEL: (574) 718-9812  
FAX:



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

**RE:** Pemiscot Co R-3

**WorkOrder:** 24011975

Dear Matt Marshall:

TEKLAB, INC received 1 sample on 1/30/2024 11:30:00 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](mailto:patrickriley@teklabinc.com)



## Report Contents

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

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**Client:** Semo Compliance & Remediation

**Work Order:** 24011975

**Client Project:** Pemiscot Co R-3

**Report Date:** 20-Feb-24

---

**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:** Semo Compliance & Remediation

**Work Order:** 24011975

**Client Project:** Pemiscot Co R-3

**Report Date:** 20-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.

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TNTC Too numerous to count ( > 200 CFU )

**Client:** Semo Compliance & Remediation

**Work Order:** 24011975

**Client Project:** Pemiscot Co R-3

**Report Date:** 20-Feb-24

### Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
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- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
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- 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:** Semo Compliance & Remediation

**Work Order:** 24011975

**Client Project:** Pemiscot Co R-3

**Report Date:** 20-Feb-24

**Cooler Receipt Temp:** 13.1 °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



## Accreditations

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

**Client:** Semo Compliance & Remediation

**Work Order:** 24011975

**Client Project:** Pemiscot Co R-3

**Report Date:** 20-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



## Laboratory Results

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

Client: Semo Compliance & Remediation

Work Order: 24011975

Client Project: Pemiscot Co R-3

Report Date: 20-Feb-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>									
24011975-001A	C-1	NELAP		1.0	< 1.0	µg/L	1	02/20/2024 10:20	01/27/2024 11:22





# Receiving Check List

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

Client: Semo Compliance & Remediation

Work Order: 24011975

Client Project: Pemiscot Co R-3

Report Date: 20-Feb-24

Carrier: UPS

Received By: LEH

Completed by:

*Amber Dilallo*

Reviewed by:

*Ellie Hopkins*

On:

30-Jan-24

Amber Dilallo

On:

30-Jan-24

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes  No  Not Present  Temp °C **13.1**
- Type of thermal preservation? None  Ice  Blue Ice  Dry Ice
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Reported field parameters measured: Field  Lab  NA
- Container/Temp Blank temperature in compliance? Yes  No

*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  No  No VOA vials
- Water - TOX containers have zero headspace? Yes  No  No TOX containers
- Water - pH acceptable upon receipt? Yes  No  NA
- NPDES/CWA TCN interferences checked/treated in the field? Yes  No  NA

**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 - 1/30/2024 12:37:22 PM

# CHAIN OF CUSTODY

pg. \_\_\_ of \_\_\_ Work order # 24011975

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

**Client:** Semo Compliance & Remediation  
**Address:** 3349 County Road 484  
**City / State / Zip:** Poplar Bluff, MO 63901  
**Contact:** Matt Marshall **Phone:** \_\_\_\_\_  
**E-Mail:** mattmarshall1986@gmail.com **Fax:** \_\_\_\_\_

**Samples on:**  ICE  BLUE ICE  NO ICE 13.1 °C LTG# 5  
**Preserved in:**  LAB  FIELD **FOR LAB USE ONLY**  
**Lab Notes**

Are these samples known to be involved in litigation? If yes, a surcharge will apply  Yes  No  
 Are these samples known to be hazardous? If yes, include details of the hazard.  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

**Client Comments:**

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																	
<u>Pemislot CO R-3</u>		<u>Matt Marshall</u>		Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW Lead													
Results Requested	Billing Instructions	# and Type of Containers																					
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)		UNPRES	HNO3	NaOH	H2SO4	HCL	NaOH	NaHSO4	OTHER														
Lab Use Only	Sample Identification	Date/Time Sampled																					
<u>24011975</u>	<u>C-1</u>	<u>1-27-24 11:22</u>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>													

Relinquished By	Date/Time	Received By	Date/Time
<u>Matt Marshall</u>	<u>1-28-24 - 8:15 am</u>	<u>[Signature]</u> WPJ	<u>1/30/24 11:30</u>

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.

Bottle Order: 84328

LA 1/30/24

# **APPENDIX C**

## **CREDENTIALS**

*Missouri Department of Natural Resources  
Public Drinking Water Program  
Certificate of Competency*



**DS III**


**WATER DISTRIBUTION LEVEL - III**


*This is to Certify that **Matthew R. Marshall** having submitted satisfactory evidence of his/her qualifications, knowledge and experience, has been awarded this certificate of competency in drinking water system operations, as provided for in Public Drinking Water Program, Certification of Public Water System Operators Rule 10 CSR 60-14.020, effective August 1, 2001.*

CERTIFICATION NUMBER 14310

ORIGINAL ISSUE DATE March 8, 2023

CERTIFICATE EXPIRES March 31, 2026

  
Issued By

  
Public Drinking Water Branch Chief

RENEWAL STICKER

All training must be completed prior to the expiration date of the certificate. There is no grace period to complete training.