REPORT OF DRINKING WATER SAMPLING FOR LEAD CONTENT AT:

FRONTIER MIDDLE SCHOOL 9233 HWY DD O FALLON, MISSOURI 63368



PREPARED FOR:

MRS. ANGELA HAWKINS
DIRECTOR OF MAINTENANCE
WENTZVILLE R-IV SCHOOL DISTRICT
101 SUPPORT SERVICE DRIVE
WENTZVILLE, MISSOURI 63385

PREPARED BY:

J.S. HELD, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK COLLINSVILLE, ILLINOIS 62234 (618) 343-3590

NOVEMBER 2023

DOCUMENT TO BE RETAINED INDEFINITELY

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Wentzville R-IV School District
South Middle
561 East Highway N
Wentzville, Missouri 63385

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EXECUTIVE SUMMARY



6 Meadow Heights Professional Park Drive Collinsville, IL 62234 | US

jsheld.com

November 8, 2023

Mrs. Angela Hawkins Director of Maintenance Wentzville R-IV School District 101 Support Service Drive O'Fallon, Missouri 63366

Subject: Results of Drinking Water Testing for Lead Content

Site(s): Frontier Middle School

9233 Hwy DD

O'Fallon, Missouri 63368

Dear Mrs. Hawkins,

On the morning of October 27th, 2023, J.S. Held, LLC performed lead testing of multiple water sources at the Frontier Middle School located at 9233 Hwy DD in Wentzville, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD and State of Missouri Regulations and Guidelines. Work was performed in accordance with the newly amended Missouri Senate Bill 681.

All inspectors involved with sampling activities had EPA approved training in lead. Certifications for our firm and the inspector collecting the samples are included as Appendix C to this document.

All samples were collected on a "first draw" and "second 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. J.S. Held proposes to collect a second sample from each source as a "follow-up sample" per the Missouri Senate Bill 681 requirements. As such, J.S. Held inspectors met at the school at 4:45 a.m. to collect water samples before the systems were used by staff or students. The State of Missouri and other regulatory agencies recommend that water sources run for at least thirty seconds and as long as two minutes prior to use to avoid settling within the water system.

1

Drinking water samples were collected from sixty-eight (68) different locations throughout Frontier Middle School during the sampling event. The water samples were collected from drinking fountains and sinks potentially utilized for cooking or drinking activities at the campus. After sample collection, samples were immediately iced down and delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP accredited and State of Illinois licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Appendix A of this report.

The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 micrograms per liter (µg/L). The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 microgram of lead per liter (µg/L). This reporting value equates to 1.0 parts per billion (ppb) of lead. The USEPA action level for lead in drinking water is 15.0 ppb for PSW. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. One Hundred-Thirty-One (131) samples collected from the selected locations at the Frontier Middle School reported sample results which were less than the action level. This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results) The Missouri Senate Bill 1075 require potable plumbing fixtures to be less than 5.0 ppb, the levels area above 5 ppb, then action shall be necessary to filter the water from the fixture or clean/repair/replace the fixture and retest until the levels are reported below 5 ppb. Two (2) sample collected from the selected locations at the Frontier Middle School reported a sample result which is above 5 ppb (See Appendix A and B for Sample Results)

The following results are greater than the 5 ppb requirements under Senate Bill 681.

04A	Kitchen- Dishwashing Area- 3 Bay- Sprayer Sink	16.9
63A	Room 1208 Sink	5.8

At this time all water sources testing at 5 ppb or above should be removed from service until filtration can be added or these sources are repaired/replaced and retested reporting under 5 ppb. These sources are subject to additional maintenance activities and response actions prior to use. Before being put back in service. In addition, all sources will be subject to an ongoing maintenance program and re-testing at appropriate intervals. The district will be required to provide notification to parents and staff within 7 days of receiving these sample results and results shall be posted on the district website within 2 weeks. Any samples reported over 5 ppb should be re-sampled on an annual basis at a minimum.

J.S. Held recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

J.S. Held is pleased to provide this information to Wentzville R-IV School District and we appreciate the opportunity to provide quality environmental consulting services. Please call us at (618) 343-3590 if you have any questions or to arrange a meeting to discuss.

Sincerely, J.S. Held, LLC

Jim Uasitis

Jim Yasitis

Vice President of Environmental Health & Safety

APPENDIX A SAMPLE LOCATIONS & RESULTS

TABLE 1

Drinking Water Sampling for Lead Content Wentzville R-IV School District Frontier Middle School

Sampled: October 27, 2023

Samp	ole ID Location	Water Source	Results (ppb)
01A	Kitchen- Pot Filler	Sink	2.8
01B	Kitchen- Pot Filler	Sink	<1.0
02A	Kitchen- Single Bay	Sink	<1.0
02B	Kitchen- Single Bay	Sink	<1.0
03A	Kitchen- Dishwashing Area- Dish Sprayer	Sink	1.1
03B	Kitchen- Dishwashing Area- Dish Sprayer	Sink	<1.0
04A	Kitchen- Dishwashing Area- 3 Bay- Sprayer	Sink	16.9
04B	Kitchen- Dishwashing Area- 3 Bay- Sprayer	Sink	<1.0
05A	Kitchen- Dishwashing Area- 3 Bay- (Left)	Sink	1.4
05B	Kitchen- Dishwashing Area- 3 Bay- (Left)	Sink	<1.0
06A	Kitchen- Dishwashing Area- 3 Bay (Right)	Sink	<1.0
06B	Kitchen- Dishwashing Area- 3 Bay (Right)	Sink	<1.0
07	Kitchen- Ice Machine	Ice Machine	<1.0
08A	Cafeteria 410	Fountain	<1.0
08B	Cafeteria 410	Fountain	<1.0
09A	Library 408B	Sink	<1.0
09B	Library 408B	Sink	<1.0
10A	Near Room 101 (Left)	Fountain	<1.0
10B	Near Room 101 (Left)	Fountain	<1.0
11A	Near Room 101 (Left Center)	Fountain	<1.0
11B	Near Room 101 (Left Center)	Fountain	<1.0
12A	Near Room 101 (Right Center)	Fountain	<1.0
12B	Near Room 101 (Right Center)	Fountain	<1.0
13A	Near Room 101 (Right)	Fountain	<1.0
13B	Near Room 101 (Right)	Fountain	<1.0
14A	Near Room 301 (Left)	Fountain	<1.0
14B	Near Room 301 (Left)	Fountain	<1.0
15A	Near Room 301 (Left Center)	Fountain	<1.0
15B	Near Room 301 (Left Center)	Fountain	<1.0
16A	Near Room 301 (Right Center)	Fountain	<1.0
16B	Near Room 301 (Right Center)	Fountain	<1.0
17A	Near Room 301 (Right)	Fountain	<1.0
17B	Near Room 301 (Right)	Fountain	<1.0
18A	Near Room 202B (Left)	Fountain	<1.0
18B	Near Room 202B (Left)	Fountain	<1.0

Samp	ole ID Location	Water Source	Results (ppb)
19A	Near Room 202B (Right)	Fountain	<1.0
19B	Near Room 202B (Right)	Fountain	<1.0
20A	Room 201F- Teachers Workroom	Sink	<1.0
20B	Room 201F- Teachers Workroom	Sink	<1.0
21A	Room 203- Nurses Office	Sink	<1.0
21B	Room 203- Nurses Office	Sink	<1.0
22A	Near Room 206 (Left)	Fountain	<1.0
22B	Near Room 206 (Left)	Fountain	<1.0
23A	Near Room 206 (Right)	Fountain	<1.0
23B	Near Room 206 (Right)	Fountain	<1.0
24A	Room 206 (Left)	Sink	<1.0
24B	Room 206 (Left)	Sink	<1.0
25A	Room 206 (Right)	Sink	<1.0
25B	Room 206 (Right)	Sink	<1.0
26A	Near Room 410 (Left)	Fountain	<1.0
26B	Near Room 410 (Left)	Fountain	<1.0
27A	Near Room 410 (Left Center)	Fountain	<1.0
27B	Near Room 410 (Left Center)	Fountain	<1.0
28A	Near Room 410 (Right Center)	Fountain	<1.0
28B	Near Room 410 (Right Center)	Fountain	<1.0
29A	Near Room 410 (Right)	Fountain	<1.0
29B	Near Room 410 (Right)	Fountain	<1.0
30A	Near Room 915 (Left)	Fountain	<1.0
30B	Near Room 915 (Left)	Fountain	<1.0
31A	Near Room 915 (Right) Non-Functional	Fountain	<1.0
31B	Near Room 915 (Right) Non-Functional	Fountain	<1.0
32A	Near Room 902 (Left)	Fountain	<1.0
32B	Near Room 902 (Left)	Fountain	<1.0
33A	Near Room 902 (Right)	Fountain	<1.0
33B	Near Room 902 (Right)	Fountain	<1.0
34A	Gym Hall near Room 906 (Left)	Fountain	<1.0
34B	Gym Hall near Room 906 (Left)	Fountain	<1.0
35A	Gym Hall near Room 906 (Right)	Fountain	<1.0
35B	Gym Hall near Room 906 (Right)	Fountain	<1.0
36A	Boys Locker Room	Fountain	<1.0
36B	Boys Locker Room	Fountain	<1.0
37A	Gym Hall near Room 914 (Left)	Fountain	<1.0
37B	Gym Hall near Room 914 (Left)	Fountain	<1.0
38A	Gym Hall near Room 914 (Right)	Fountain	<1.0
38B	Gym Hall near Room 914 (Right)	Fountain	<1.0
39A	Girls Locker Room	Fountain	<1.0
39B	Girls Locker Room	Fountain	<1.0
40A	Room 413 Station 1 (Left)	Sink	1.0
40B	Room 413 Station 1 (Left)	Sink Sink	<1.0
41A	Room 413 Station 1 (Right)	SIIIK	1.1

Samp	ole ID Location	Water Source	Results (ppb)
41B	Room 413 Station 1 (Right)	Sink	<1.0
42A	Room 413 Station 2	Sink	<1.0
42B	Room 413 Station 2	Sink	<1.0
43A	Room 413 Station 3	Sink	<1.0
43B	Room 413 Station 3	Sink	<1.0
44A	Room 413 Station 4	Sink	<1.0
44B	Room 413 Station 4	Sink	<1.0
45A	Room 600D Teachers Workroom	Sink	<1.0
45B	Room 600D Teachers Workroom	Sink	<1.0
46	Room 600D Teachers Workroom	Ice Machine	<1.0
47A	Near Room 502 (Left)	Fountain	<1.0
47B	Near Room 502 (Left)	Fountain	<1.0
48A	Near Room 502 (Left Center)	Fountain	<1.0
48B	Near Room 502 (Left Center)	Fountain	<1.0
49A	Near Room 502 (Right Center)	Fountain	<1.0
49B	Near Room 502 (Right Center)	Fountain	<1.0
50A	Near Room 502 (Right)	Fountain	<1.0
50B	Near Room 502 (Right)	Fountain	<1.0
51A	Near Room 505 (Left)	Fountain	<1.0
51B	Near Room 505 (Left)	Fountain	<1.0
52A	Near Room 505 (Right)	Fountain	<1.0
52B	Near Room 505 (Right)	Fountain	<1.0
53A	Near Room 705 (Left)	Fountain	<1.0
53B	Near Room 705 (Left)	Fountain	<1.0
54A	Near Room 705 (Right)	Fountain	<1.0
54B	Near Room 705 (Right)	Fountain	<1.0
55A	Near Room 701 (Left)	Fountain	<1.0
55B	Near Room 701 (Left)	Fountain	<1.0
56A	Near Room 701 (Left Center)	Fountain	<1.0
56B	Near Room 701 (Left Center)	Fountain	<1.0
57A	Near Room 701 (Right Center)	Fountain	<1.0
57B	Near Room 701 (Right Center)	Fountain	<1.0
58A	Near Room 701 (Right)	Fountain	<1.0
58B	Near Room 701 (Right)	Fountain	<1.0
59A	Near Room 1406 (Left)	Fountain	1.0
59B	Near Room 1406 (Left)	Fountain	<1.0
60A	Near Room 1406 (Left Center)	Fountain	1.2
60B	Near Room 1406 (Left Center)	Fountain	<1.0
61A	Near Room 1406 (Right Center)	Fountain	1.4
61B	Near Room 1406 (Right Center)	Fountain	<1.0
62A	Near Room 1406 (Right)	Fountain	<1.0
62B	Near Room 1406 (Right)	Fountain	<1.0
63A	Room 1208	Sink	5.8
63B	Room 1208	Sink	<1.0
64A	Near Room 1210 (Left)	Fountain	1.4
	• /		

Samp	le ID Location	Water Source	Results (ppb)
64B	Near Room 1210 (Left)	Fountain	<1.0
65A	Near Room 1210 (Left Center)	Fountain	<1.0
65B	Near Room 1210 (Left Center)	Fountain	<1.0
66A	Near Room 1210 (Right Center)	Fountain	1.7
66B	Near Room 1210 (Right Center)	Fountain	1.0
67A	Near Room 1210 (Right)	Fountain	1.7
67B	Near Room 1210 (Right)	Fountain	1.2
68	Room 201F- Teachers Workroom	Ice Machine	<1.0



Water sources in excess of 20 ppb. Recommendation is to remove from service immediately. Do not return to service until re-testing confirms mitigation was effective.

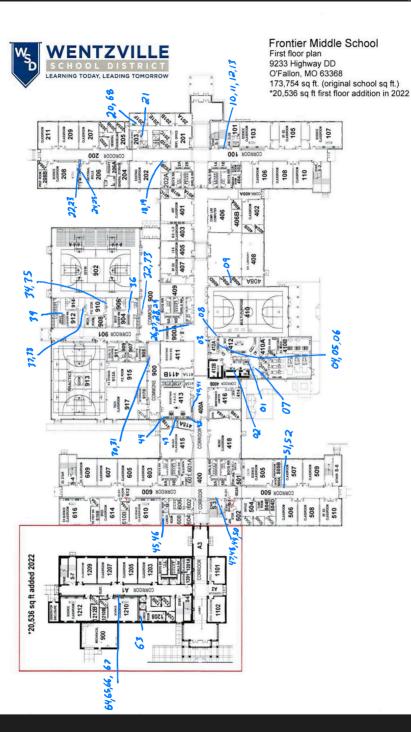


Water source is 5-19.9 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum.

Sample Legend

"A" = First Draw

[&]quot;B" = Second Draw

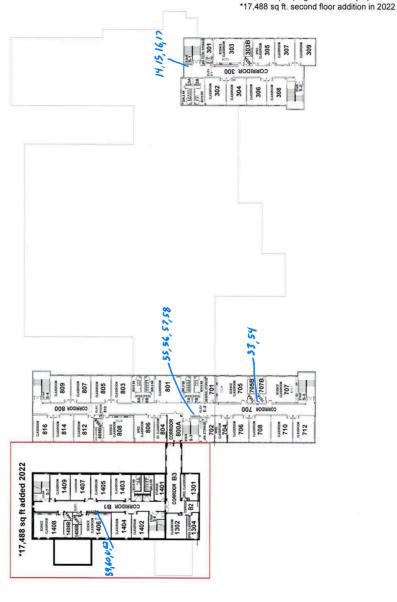




Frontier Middle School

Second floor plan

9233 Highway DD O'Fallon, MO 63368 173,754 sq ft. (original school sq ft.)



APPENDIX B LABORATORY ANALYSIS



November 07, 2023

Jeff Faust Environmental Consultants, LLC #6 Meadow Heights Professional Park Collinsville, IL 62234

TEL: (618) 343-3590 FAX: (618) 343-3597

TNI TNI FBORATORY

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

RE: Wentzville SD Water Sampling 231000104-Frontier **WorkOrder:** 23102221

Dear Jeff Faust:

TEKLAB, INC received 70 samples on 10/27/2023 11:20:00 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,

Marvin L. Darling

Project Manager

(618)344-1004 ex 41

mdarling@teklabinc.com

Mowin L. Darling I



Report Contents

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23

This reporting package includes the following:

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Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-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)



Definitions

http://www.teklabinc.com/

Report Date: 07-Nov-23

Client: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier

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: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23

Cooler Receipt Temp: N/A °C

Locations

	Collinsville		Springfield	Kansas City					
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road				
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214				
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998				
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998				
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com				
	Collinsville Air		Chicago						
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.						
	Collinsville, IL 62234-7425		Downers Grove, IL 60515						
Phone	(618) 344-1004	Phone	(630) 324-6855						
Fax	(618) 344-1005	Fax							
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com						



Accreditations

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-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: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23

Matrix: DRINKING WATER

	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
-	-		KL	Result	Units	Dr	Date Analyzeu	Date Collected
•	200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
23102221-001A		NELAP	1.0	2.8	μg/L	1	11/04/2023 8:09	10/27/2023 7:00
23102221-002A	01B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 8:29	10/27/2023 7:00
23102221-003A		NELAP	1.0	< 1.0	μg/L	1	11/04/2023 8:13	10/27/2023 7:00
23102221-004A	02B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 8:17	10/27/2023 7:00
23102221-005A	03A	NELAP	1.0	1.1	μg/L	1	11/04/2023 8:21	10/27/2023 7:00
23102221-006A	03B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 8:25	10/27/2023 7:00
23102221-007A		NELAP	1.0	16.9	μg/L	1	11/04/2023 8:53	10/27/2023 7:00
23102221-008A	04B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 9:21	10/27/2023 7:00
23102221-009A	05A	NELAP	1.0	1.4	μg/L	1	11/04/2023 8:57	10/27/2023 7:00
23102221-010A	05B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 9:01	10/27/2023 7:00
23102221-011A	06A	NELAP	1.0	1.0	μg/L	1	11/04/2023 9:05	10/27/2023 7:00
23102221-012A	06B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 9:09	10/27/2023 7:00
23102221-013A	07	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 9:13	10/27/2023 7:00
23102221-014A	08A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 9:17	10/27/2023 7:00
23102221-015A	08B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 6:42	10/27/2023 7:00
23102221-016A	09A	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 6:46	10/27/2023 7:00
23102221-017A	09B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 6:50	10/27/2023 7:00
23102221-018A	10A	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 6:54	10/27/2023 7:00
23102221-019A	10B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 6:58	10/27/2023 7:00
23102221-020A	11A	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 7:02	10/27/2023 7:00
23102221-021A	11B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 7:06	10/27/2023 7:00
23102221-022A	12A	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 7:10	10/27/2023 7:00
23102221-023A	12B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:18	10/27/2023 7:00
23102221-024A	13A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:22	10/27/2023 7:00
23102221-025A	13B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:26	10/27/2023 7:00
23102221-026A	14A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:30	10/27/2023 7:00
23102221-027A	14B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:34	10/27/2023 7:00
23102221-028A	15A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:38	10/27/2023 7:00
23102221-029A	15B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:42	10/27/2023 7:00
23102221-030A	16A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:10	10/27/2023 7:00
23102221-031A	16B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:14	10/27/2023 7:00
23102221-032A	17A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 15:46	10/27/2023 7:00
23102221-033A	17B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:19	10/27/2023 7:00
23102221-034A	18A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:23	10/27/2023 7:00
23102221-035A	18B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:27	10/27/2023 7:00
23102221-036A	19A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:31	10/27/2023 7:00
23102221-037A	19B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:35	10/27/2023 7:00
23102221-038A	20A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:39	10/27/2023 7:00
23102221-039A	20B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:43	10/27/2023 7:00
23102221-040A	21A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 16:47	10/27/2023 7:00
23102221-041A	21B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:31	10/27/2023 7:00
23102221-042A	22A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:03	10/27/2023 7:00
23102221-043A	22B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:07	10/27/2023 7:00
23102221-044A	23A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:11	10/27/2023 7:00
23102221-045A	23B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:15	10/27/2023 7:00
23102221-046A	24A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:19	10/27/2023 7:00
23102221-047A	24B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:23	10/27/2023 7:00
23102221-048A	25A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 17:27	10/27/2023 7:00



Laboratory Results

http://www.teklabinc.com/

Report Date: 07-Nov-23

Client: Environmental Consultants, LLC Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qua	l RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTA	L)					
Lead		`	•					
23102221-049	A 25B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:32	10/27/2023 7:00
23102221-050	A 26A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:04	10/27/2023 7:00
23102221-051	A 26B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:08	10/27/2023 7:00
23102221-052	A 27A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:12	10/27/2023 7:00
23102221-053	A 27B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:16	10/27/2023 7:00
23102221-054	A 28A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:20	10/27/2023 7:00
23102221-055	A 28B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:24	10/27/2023 7:00
23102221-056	A 29A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:28	10/27/2023 7:00
23102221-057	A 29B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:18	10/27/2023 7:00
23102221-058	A 30A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:22	10/27/2023 7:00
23102221-059	A 30B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:26	10/27/2023 7:00
23102221-060	A 32A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:30	10/27/2023 7:00
23102221-061	A 32B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:34	10/27/2023 7:00
23102221-062	A 33A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:38	10/27/2023 7:00
23102221-063	A 33B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:46	10/27/2023 7:00
23102221-064	A 34A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 14:42	10/27/2023 7:00
23102221-065	A 34B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 18:56	10/27/2023 7:00
23102221-066	A 35A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:00	10/27/2023 7:00
23102221-067	A 35B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:04	10/27/2023 7:00
23102221-068	A 36A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:08	10/27/2023 7:00
23102221-069/	A 36B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:12	10/27/2023 7:00
23102221-070	A 37A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:16	10/27/2023 7:00



Client: Environmental Consultants, LLC

Receiving Check List

http://www.teklabinc.com/

Work Order: 23102221

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23 Carrier: Devon Rathbun Received By: HAW Moon Dillacco Completed by: Reviewed by: On: On: 27-Oct-23 27-Oct-23 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** Samples in proper container/bottle? Yes No 🗀 **V** Sample containers intact? Yes No Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? 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 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗸 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No \square 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 - 10/27/2023 2:14:47 PM

CHAIN OF CUSTODY

pg. 1 of 14 Work Order \$.23102221

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City / State / Zip	: Collinsville, IL	6,223	34									L,	ald P	Jevic	确定:														
Contact: Jim	Yasitis .	. [	Phone	: 618-	34	3-3	359	0																					
E-Mail: james	. yasitis@jsheld.co	009	Fax:	618	-34	3-3	359	7_	<del></del>				omi				Λ.		, c.,	.a.91									
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CHAIN OF CUSTODY pg. _ d of 14 work Order # 23/0222\

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E-Mail: jame	s, yasitis@jsheld.co	<u>m</u> Fax	: 6/8	-34	3-3	3597	,			16.0	Con E				۸A	1 / 1 .	s St	10	94									
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# CHAIN OF CUSTODY

Client: J. S. Helk									S ALL	nph	25 C	m. L	<i>i</i> : 10		ur ice		est of			***	_~~©			
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City   State   Zip: Collinsville, IL	6.2234								Lab	, Ne	was													
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The individual signing this agreement on behi	alf of client	acknowledo	es th	at he	/cha	hac	5004			•	•													

CHAIN OF CUSTODY pg. 4 of 14 Work Order #. 23102221

Client: J. S. Hell		·				Sa	aipl	2\$ O	n: 🖾	lce	D BU	a Ice	Ø.N	o Ica						
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CHAIN OF CUSTODY pg. 5 of 14 Work Order #23102221

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City   State   Zip: Collinsville, IL e						_		Lab	Noi	沿岸,														
Contact: Jim Yasitis	Phone:	618-34.	3-35	90		_																		
E-Mail: james, yasitis@jsheld.com	m Fax:	618-34	-35,	97		}	1000	Gen				Α.,		Seac	7e93									
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# CHAIN OF CUSTODY

pg. <u>6</u> of <u>14</u> Work Order #. <u>23102321</u>

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City   State   Zip: Collinsville, IL	6.2234						_		Lab	Νø	ins.														
Contact: Jim Yasitis	Pho	ne: <u>6/8</u>	343	-359	0		-																		
E-Mall: james, yasitis@jsheld.c	om Fax:	618	-343	-359	7		_	10.00	Con																
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# CHAIN OF CUSTODY

pg. <u>7 of 14</u> Work Order # <u>331022</u>

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

Client:	J.S. Held							_		San	iple	s or	ı. I	lee		Bible	log.	O.k	lo Ica				_°C			
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November 07, 2023

Jeff Faust Environmental Consultants, LLC #6 Meadow Heights Professional Park Collinsville, IL 62234

TEL: (618) 343-3590 FAX: (618) 343-3597

TNI TNI LABORATORY

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

**RE:** Wentzville SD Water Sampling 231000104-Frontier WorkOrder: 23102222

Dear Jeff Faust:

TEKLAB, INC received 61 samples on 10/27/2023 11:20:00 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,

Marvin L. Darling

Project Manager

(618)344-1004 ex 41

mdarling@teklabinc.com

Mowin L. Darling I



# **Report Contents**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23

## 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	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-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 )



## **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-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: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23

Cooler Receipt Temp: N/A °C

## **Locations**

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



# **Accreditations**

#### http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-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/

Report Date: 07-Nov-23

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier

Matrix: DRINKING WATER

Matrix	DRINKING WA	IEK						
Sample ID C	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	<b>Date Collected</b>
EPA 600 4.1.4,	200.8 R5.4, META	LS BY ICPMS (TOTAI	_)					
Lead								
23102222-001A	37B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:25	10/27/2023 7:00
23102222-002A	38A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:21	10/27/2023 7:00
23102222-003A	38B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:49	10/27/2023 7:00
23102222-004A	39A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:53	10/27/2023 7:00
23102222-005A	39B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 19:57	10/27/2023 7:00
23102222-006A	40A	NELAP	1.0	1.0	μg/L	1	11/06/2023 20:01	10/27/2023 7:00
23102222-007A	40B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:05	10/27/2023 7:00
23102222-008A	41A	NELAP	1.0	1.1	μg/L	1	11/06/2023 20:09	10/27/2023 7:00
23102222-009A	41B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:17	10/27/2023 7:00
23102222-010A	42A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:13	10/27/2023 7:00
23102222-011A	42B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:42	10/27/2023 7:00
23102222-012A	43A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:46	10/27/2023 7:00
23102222-013A	43B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:50	10/27/2023 7:00
23102222-014A	44A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:54	10/27/2023 7:00
23102222-015A	44B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 20:58	10/27/2023 7:00
23102222-016A	45A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:02	10/27/2023 7:00
23102222-017A	45B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:06	10/27/2023 7:00
23102222-018A	46	NELAP	1.0	< 1.0	μg/L	5	11/07/2023 8:40	10/27/2023 7:00
23102222-019A	47A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:10	10/27/2023 7:00
23102222-020A	47B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 18:05	10/27/2023 7:00
23102222-021A	48A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:14	10/27/2023 7:00
23102222-022A	48B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:18	10/27/2023 7:00
23102222-023A	49A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 17:49	10/27/2023 7:00
23102222-024A	49B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 17:53	10/27/2023 7:00
23102222-025A	50A	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 17:57	10/27/2023 7:00
23102222-026A	50B	NELAP	1.0	< 1.0	μg/L	1	11/04/2023 18:01	10/27/2023 7:00
23102222-027A	51A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:34	10/27/2023 7:00
23102222-028A	51B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:38	10/27/2023 7:00
23102222-029A	52A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:42	10/27/2023 7:00
23102222-030A	52B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:46	10/27/2023 7:00
23102222-031A	53A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:50	10/27/2023 7:00
23102222-032A	53B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:03	10/27/2023 7:00
23102222-033A	54A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:54	10/27/2023 7:00
23102222-034A	54B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 21:58	10/27/2023 7:00
23102222-035A	55A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:27	10/27/2023 7:00
23102222-036A	55B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:31	10/27/2023 7:00
23102222-037A	56A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:35	10/27/2023 7:00
23102222-038A	56B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:39	10/27/2023 7:00
23102222-039A	57A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:43	10/27/2023 7:00
23102222-040A	57B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:47	10/27/2023 7:00
23102222-041A	58A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:55	10/27/2023 7:00
23102222-042A	58B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 22:51	10/27/2023 7:00
23102222-043A	59A	NELAP	1.0	1.0	μg/L	1	11/06/2023 23:20	10/27/2023 7:00
23102222-044A	59B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 23:24	10/27/2023 7:00
23102222-045A	60A	NELAP	1.0	1.2	μg/L	1	11/06/2023 23:28	10/27/2023 7:00
23102222-046A	60B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 23:32	10/27/2023 7:00
23102222-047A	61A	NELAP	1.0	1.4	μg/L	1	11/06/2023 23:36	10/27/2023 7:00
23102222-048A		NELAP	1.0	< 1.0	μg/L	1	11/06/2023 23:40	10/27/2023 7:00
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## **Laboratory Results**

http://www.teklabinc.com/

Report Date: 07-Nov-23

Client: Environmental Consultants, LLC Work Order: 23102222

Client Project: Wentzville SD Water Sampling 231000104-Frontier

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qua	l RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTA	L)					
Lead								
23102222-049	A 62A	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 23:44	10/27/2023 7:00
23102222-050	A 62B	NELAP	1.0	< 1.0	μg/L	1	11/06/2023 23:48	10/27/2023 7:00
23102222-051	A 63A	NELAP	1.0	5.8	μg/L	1	11/07/2023 0:12	10/27/2023 7:00
23102222-052	A 63B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 0:17	10/27/2023 7:00
23102222-053	A 64A	NELAP	1.0	1.4	μg/L	1	11/07/2023 0:21	10/27/2023 7:00
23102222-054	A 64B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 0:25	10/27/2023 7:00
23102222-055	A 65A	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 0:29	10/27/2023 7:00
23102222-056	A 65B	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 0:33	10/27/2023 7:00
23102222-057	A 66A	NELAP	1.0	1.7	μg/L	1	11/07/2023 0:37	10/27/2023 7:00
23102222-058	A 66B	NELAP	1.0	1.0	μg/L	1	11/07/2023 0:41	10/27/2023 7:00
23102222-059	A 67A	NELAP	1.0	1.7	μg/L	1	11/07/2023 0:45	10/27/2023 7:00
23102222-060	A 67B	NELAP	1.0	1.2	μg/L	1	11/07/2023 0:49	10/27/2023 7:00
23102222-061	A 68	NELAP	1.0	< 1.0	μg/L	1	11/07/2023 1:13	10/27/2023 7:00



## **Receiving Check List**

http://www.teklabinc.com/

Work Order: 23102222 Client: Environmental Consultants, LLC Client Project: Wentzville SD Water Sampling 231000104-Frontier Report Date: 07-Nov-23 Carrier: Devon Rathbun Received By: HAW Moon Dillacuc Completed by: Reviewed by: On: On: 27-Oct-23 27-Oct-23 Amber Dilallo Ellie Hopkins Extra pages included 4 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** Samples in proper container/bottle? Yes No 🗀 **V** Sample containers intact? Yes No Yes **~** No Sufficient sample volume for indicated test? **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No  $\square$ Container/Temp Blank temperature in compliance? 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 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗸 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No  $\square$ 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 - 10/27/2023 2:24:58 PM

## CHAIN OF CUSTODY

pg. 8 of 14 Work Order \$.23102222

Client:	J.S. Held						·				通的	ple	S 0	n:		lce	0 BI	e los	K	lo Ic		$\overline{M}$	W	_*c			
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Contact:	ion Vasitis	Pho	ne: <u>6/8</u>	-343	?-3.	590																					
E-Mail: jac	nes, yasitis@jsheld.co	m_Fax	: 618	-343	-3º	597					39N				۷Α		i Se	001									
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CHAIN OF CUSTODY pg. 7 of 14 Work Order #,23102222

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CHAIN OF CUSTODY pg. 10 of 14 Work Order #.2302222

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## CHAIN OF CUSTODY

pg. <u>11 of 14</u> Work Order #<u>23102222</u>

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CHAIN OF CUSTODY pg. 12 of 14 Work Order # 2302222

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Contact: Jim	Yasitis .	Pho	ne: <u>6/8</u>	34:	3-3.	590																				
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## CHAIN OF CUSTODY

pg. <u>13</u> of <u>14</u> Work Order <u>* 33103222</u>

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J.S. Held

Client:

CHAIN OF CUSTODY pg. 19 of 19 Work Order #,23102222

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# 23102222

## TABLE 1

# Drinking Water Sampling for Lead Content Wentzville R-IV School District Frontier Middle School

Sampled: October 27, 2023

Samp	le ID Location	Water Source	Results (ppb)
01A	Kitchen- Pot Filler	Sink	
01B	Kitchen- Pot Filler	Sink	
02A	Kitchen- Single Bay	Sink	
02B	Kitchen- Single Bay	Sink	
03A	Kitchen- Dishwashing Area- Dish Sprayer	Sink	
03B	Kitchen- Dishwashing Area- Dish Sprayer	Sink	
04A	Kitchen- Dishwashing Area- 3 Bay- Sprayer	Sink	
04B	Kitchen- Dishwashing Area- 3 Bay- Sprayer	Sink	
05A	Kitchen- Dishwashing Area- 3 Bay- (Left)	Sink	
05B	Kitchen- Dishwashing Area- 3 Bay- (Left)	Sink	
06A	Kitchen- Dishwashing Area- 3 Bay (Right)	Sink	
06B	Kitchen- Dishwashing Area- 3 Bay (Right)	Sink	
07	Kitchen- Ice Machine	Ice Machine	
08A	Cafeteria 410	Fountain	
08B	Cafeteria 410	Fountain	
09A	Library 408B	Sink	
09B	Library 408B	Sink	
10A	Near Room 101 (Left)	Fountain	
10B	Near Room 101 (Left)	Fountain	
11A	Near Room 101 (Left Center)	Fountain	
11B	Near Room 101 (Left Center)	Fountain	
12A	Near Room 101 (Right Center)	Fountain	
12B	Near Room 101 (Right Center)	Fountain	
13A	Near Room 101 (Right)	Fountain	
13B	Near Room 101 (Right)	Fountain	
14A	Near Room 301 (Left)	Fountain	
14B	Near Room 301 (Left)	Fountain	
15A	Near Room 301 (Left Center)	Fountain	
15B	Near Room 301 (Left Center)	Fountain	
16A	Near Room 301 (Right Center)	Fountain	
16B	Near Room 301 (Right Center)	Fountain	
17A	Near Room 301 (Right)	Fountain	
17B	Near Room 301 (Right)	Fountain	
18A	Near Room 202B (Left)	Fountain	
18B	Near Room 202B (Left)	Fountain	

Samp	ole ID Location	Water Source	Results (ppb)
19A	Near Room 202B (Right)	Fountain	
19B	Near Room 202B (Right)	Fountain	
20A	Room 201F- Teachers Workroom	Sink	
20B	Room 201F- Teachers Workroom	Sink	
21A	Room 203- Nurses Office	Sink	
21B	Room 203- Nurses Office	Sink	
22A	Near Room 206 (Left)	Fountain	
22B	Near Room 206 (Left)	Fountain	
23A	Near Room 206 (Right)	Fountain	
23B	Near Room 206 (Right)	Fountain	
24A	Room 206 (Left)	Sink	
24B	Room 206 (Left)	Sink	
25A	Room 206 (Right)	Sink	
25B	Room 206 (Right)	Sink	
26A	Near Room 410 (Left)	Fountain	
26B	Near Room 410 (Left)	Fountain	
27A	Near Room 410 (Left Center)	Fountain	
27B	Near Room 410 (Left Center)	Fountain	
28A	Near Room 410 (Right Center)	Fountain	
28B	Near Room 410 (Right Center)	Fountain	
29A	Near Room 410 (Right)	Fountain	
29B	Near Room 410 (Right)	Fountain	
30A	Near Room 915 (Left)	Fountain	
30B	Near Room 915 (Left)	Fountain	
31A' 31B`	Near Room 915 (Right) Non-Functional	Fountain Fountain	
31B	Near Room 915 (Right) Non-Functional Near Room 902 (Left)	Fountain	
32B	Near Room 902 (Left)	Fountain	
33A	Near Room 902 (Right)	Fountain	
33B	Near Room 902 (Right)	Fountain	
34A	Gym Hall near Room 906 (Left)	Fountain	
34B	Gym Hall near Room 906 (Left)	Fountain	
35A	Gym Hall near Room 906 (Right)	Fountain	
35B	Gym Hall near Room 906 (Right)	Fountain	
36A	Boys Locker Room	Fountain	
36B	Boys Locker Room	Fountain	
37A	Gym Hall near Room 914 (Left)	Fountain	
37B	Gym Hall near Room 914 (Left)	Fountain	
38A	Gym Hall near Room 914 (Right)	Fountain	
38B	Gym Hall near Room 914 (Right)	Fountain	
39A	Girls Locker Room	Fountain	
39B	Girls Locker Room  Room 412 Station 1 (Loft)	Fountain	
40A	Room 413 Station 1 (Left)	Sink	
40B 41A	Room 413 Station 1 (Left) Room 413 Station 1 (Right)	Sink Sink	
41/1	Room 413 Station 1 (Right)	SIIIK	

Samp	ole ID Location	Water Source	Results (ppb)
41B	Room 413 Station 1 (Right)	Sink	
42A	Room 413 Station 2	Sink	
42B	Room 413 Station 2	Sink	
43A	Room 413 Station 3	Sink	
43B	Room 413 Station 3	Sink	
44A	Room 413 Station 4	Sink	
44B	Room 413 Station 4	Sink	
45A	Room 600D Teachers Workroom	Sink	
45B	Room 600D Teachers Workroom	Sink	
46	Room 600D Teachers Workroom	Ice Machine	
47A	Near Room 502 (Left)	Fountain	
47B	Near Room 502 (Left)	Fountain	
48A	Near Room 502 (Left Center)	Fountain	
48B	Near Room 502 (Left Center)	Fountain	
49A	Near Room 502 (Right Center)	Fountain	
49B	Near Room 502 (Right Center)	Fountain	
50A	Near Room 502 (Right)	Fountain	
50B	Near Room 502 (Right)	Fountain	
51A	Near Room 505 (Left)	Fountain	
51B	Near Room 505 (Left)	Fountain	
52A	Near Room 505 (Right)	Fountain	
52B	Near Room 505 (Right)	Fountain	
53A	Near Room 705 (Left)	Fountain	
53B	Near Room 705 (Left)	Fountain	
54A	Near Room 705 (Right)	Fountain	
54B	Near Room 705 (Right)	Fountain	
55A	Near Room 701 (Left)	Fountain	
55B	Near Room 701 (Left)	Fountain	
56A	Near Room 701 (Left Center)	Fountain	
56B	Near Room 701 (Left Center)	Fountain	
57A	Near Room 701 (Right Center)	Fountain	
57B	Near Room 701 (Right Center)	Fountain	
58A	Near Room 701 (Right)	Fountain	
58B	Near Room 701 (Right)	Fountain	
59A	Near Room 1406 (Left)	Fountain	
59B	Near Room 1406 (Left)	Fountain	
60A	Near Room 1406 (Left Center)	Fountain	
60B	Near Room 1406 (Left Center)	Fountain	
61A	Near Room 1406 (Right Center)	Fountain	
61B	Near Room 1406 (Right Center)	Fountain	
62A	Near Room 1406 (Right)	Fountain	
62B	Near Room 1406 (Right)	Fountain	
63A	Room 1208	Sink	
63B	Room 1208	Sink	
64A	Near Room 1210 (Left)	Fountain	
O 11 A	2.13. 2003. 22.0 (2010)	T O ONTOWN	

Samp	ole ID Location	Water Source	Results (ppb)
64B	Near Room 1210 (Left)	Fountain	
65A	Near Room 1210 (Left Center)	Fountain	
65B	Near Room 1210 (Left Center)	Fountain	
66A	Near Room 1210 (Right Center)	Fountain	
66B	Near Room 1210 (Right Center)	Fountain	
67A	Near Room 1210 (Right)	Fountain	
67B	Near Room 1210 (Right)	Fountain	
68	Room 201F- Teachers Workroom	Ice Machine	
Water sources in excess of 20 ppb. Recommendation is to remove from service immediately. Do not return to service until re-testing confirms mitigation was effective.			
####	# Water source is < 20 ppb, but still displays to re-test source on an annual basis at a mi		ecommendation is

## Sample Legend

"A" = First Draw

"B" = Second Draw

## APPENDIX C CREDENTIALS

## STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

## **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# Bradley M. Frisch

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:

3/1/2022

**Expiration Date:** 

3/1/2024

License Number:

160229-300004900



Daves J. Nichelson

Paula F. Nickelson Acting Director Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

# PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# Brad Frisch

2668 Kettering Court, Saint Charles, MO 63303

contact hours of training and successfully passed an examination  $\infty$ has attended

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - 117395

Christopher C. Kinc

Director, Center for Environmental Education and Training

Examination Date: 3/7/2022

CEUs: 0.8

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104 (314) 977-8256 slu.edu/x39753.xml This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

# State of Missouri Department of Natural Resources

Certificate of Approval for Chemical Laboratory Service

This is to certify that

# Teklab, Incorporated

is hereby approved to perform the analysis of drinking water as specified on the Certified Parameter List, which must accompany this certificate to be valid.

Certification Number	930	Godflood
Date Issued	December 13, 2021	Laboratory Ced frication Authority, Public Drinking Water Branch Missouri Department of Natural Resources
Expiration Date	January 31, 2025	Rola Visel
		Laboratory Certification Officer, Environmental Services Program

## STATE OF ILLINOIS

## **ENVIRONMENTAL PROTECTION AGENCY NELAP - RECOGNIZED**

## **ENVIRONMENTAL LABORATORY ACCREDITATION**

is hereby granted to

Teklab, Incorporated 5445 Horseshoe Lake Rd. Collinsville, IL 62234 **NELAP ACCREDITED** 

Accreditation Number #100226



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: Illinois

Millie Rose Supervisor

Environmental Laboratory Accreditation Program

Certificate No: 1002262023-17

Expiration Date: 1/31/2024 Issued On: 4/11/2023

MillicRose

## State of Illinois

## **Environmental Protection Agency**

## **Awards the Certificate of Approval to:**

Teklab, Incorporated 5445 Horseshoe Lake Rd. Collinsville, IL 62234

The Illinois Environmental Laboratory Accreditation Program encourages all clients and data users to verify the most current scope of accreditation for Teklab, Incorporated.

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Method EPA 120.1	п
Conductivity	IL
Method EPA 1631E	
Mercury	IL
Method EPA 1664A Rev: 1	
Oil & Grease	IL
Method EPA 180.1 Rev: 2	
Turbidity	IL
Method EPA 200.7 Rev: 4.4	
Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Phosphorus	IL 
Potassium	IL 
Selenium	IL 
Silver	IL :
Sodium	IL II
Thallium	IL II
Tin Titanium	IL IL
Vanadium	IL IL
Zinc	IL
	IL
Method EPA 200.8 Rev: 5.4	
Aluminum	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Cadmium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Lead	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Selenium	IL
Silver	IL
Thallium	IL
Vanadium	IL
Zinc	IL
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 335.4 Rev: 1	
Cyanide	IL
Method EPA 350.1 Rev: 2	
Ammonia as N	IL
	12
Method EPA 351.2 Rev: 2	
Total Kjeldahl Nitrogen (TKN)	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Nitrite as N	IL
Method EPA 365.4	
Phosphorus	IL
Method EPA 375.2 Rev: 2	
Sulfate	IL
Method EPA 410.4 Rev: 2	
Chemical oxygen demand	IL
	12
Method EPA 420.1	п
Total phenolics	IL
Method EPA 420.4 Rev: 1	
Total phenolics	IL
Method EPA 608.3 GC-ECD	
4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Araclar-1242 (PCB-1242)	II

IL

Aroclor-1242 (PCB-1242)

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Non Potable Water) Aroclor-1248 (PCB-1248) IL Aroclor-1254 (PCB-1254) IL Aroclor-1260 (PCB-1260) IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL IL Endosulfan I Endosulfan II IL Endosulfan sulfate IL Endrin IL Endrin aldehyde IL gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL Heptachlor IL Heptachlor epoxide IL Methoxychlor IL IL Toxaphene (Chlorinated camphene) Method EPA 615 2,4,5-T IL 2,4-D IL Dicamba IL Silvex (2,4,5-TP) IL Method EPA 624.1 1,1,1-Trichloroethane IL 1,1,2,2-Tetrachloroethane IL 1,1,2-Trichloroethane IL 1,1-Dichloroethane IL 1,1-Dichloroethylene IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,2-Dichloroethane (Ethylene dichloride) IL 1,2-Dichloropropane IL 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL 2-Chloroethyl vinyl ether IL Acetonitrile IL Acrolein (Propenal) IL Acrylonitrile IL Benzene IL Bromodichloromethane IL IL Bromoform IL Carbon tetrachloride Chlorobenzene IL Chlorodibromomethane IL Chloroethane (Ethyl chloride) IL Chloroform IL cis-1,3-Dichloropropene IL Ethylbenzene IL Methyl bromide (Bromomethane) IL Methyl chloride (Chloromethane) IL Methyl tert-butyl ether (MTBE) IL Methylene chloride (Dichloromethane) IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Non Potable Water) Tetrachloroethylene (Perchloroethylene) IL Toluene IL trans-1,2-Dichloroethylene IL trans-1,3-Dichloropropylene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL IL Vinyl chloride IL Xylene (total) Method EPA 625.1 1,2,4-Trichlorobenzene IL 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,6-Trichlorophenol IL IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL 2-Nitrophenol IL 3,3'-Dichlorobenzidine IL IL 4-Bromophenyl phenyl ether IL 4-Chloro-3-methylphenol 4-Chlorophenyl phenylether IL 4-Nitrophenol IL Acenaphthene IL Acenaphthylene IL Anthracene IL Benzidine IL Benzo(a)anthracene IL Benzo(a)pyrene IL Benzo(b)fluoranthene IL IL Benzo(g,h,i)perylene IL Benzo(k)fluoranthene bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chrysene IL IL Dibenz(a,h) anthracene Diethyl phthalate IL Dimethyl phthalate IL IL Di-n-butyl phthalate Di-n-octyl phthalate IL Fluoranthene ILFluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL IL Hexachlorocyclopentadiene Hexachloroethane IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL 
n-Nitrosodiphenylamine	IL
Pentachlorophenol Phenanthrene	IL IL
Phenol	IL IL
Pyrene	IL
Pyridine	IL
Method OIA 1677-09	
Available Cyanide	IL
Method SM 2120 B-2011	
Color	IL
Method SM 2130 B-2011	1 <u>L</u>
Turbidity	IL
•	IL.
Method SM 2310 B-2011	IL
Acidity, as CaCO3	IL
Method SM 2320 B-2011	
Alkalinity as CaCO3	IL
Method SM 2340 B-1997	
Hardness	IL
Method SM 2510 B-2011	
Conductivity	IL
Method SM 2540 B-2011	
Residue-total	IL
Method SM 2540 C-2011	
Residue-filterable (TDS)	IL
Method SM 2540 D-2011	
Residue-nonfilterable (TSS)	IL
Method SM 2540 E-2011	
Residue-volatile	IL
Method SM 2540 F-2011	
Residue-settleable	IL
Method SM 3500-Cr B-2011	
Chromium VI	IL
Method SM 4500-CI G-2011	
Total residual chlorine	IL
Method SM 4500-CI C-1997	
Chloride	IL
Method SM 4500-Cl C-2011	
Chloride	IL
Method SM 4500-Cl E-2000	· <b>-</b>
Chloride	IL
	12
Method SM 4500-CI E-2011	

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water) Chloride	IL
Method SM 4500-F C-2011 Fluoride	IL
<b>Method SM 4500-H+ B-2011</b> pH	IL
Method SM 4500-NH3 G-2011 Ammonia	IL
Method SM 4500-NO2 B-2011 Nitrite	IL
Method SM 4500-NO3 F-2000 Nitrate plus Nitrite as N	IL
Method SM 4500-O G-2001 Oxygen, dissolved	IL
Method SM 4500-P E-2011 Orthophosphate as P	IL
Method SM 4500-S2 D-2011 Sulfide	IL
Method SM 4500-SO3 B-2011 Sulfite-SO3	IL
Method SM 5210 B-2011  Biochemical oxygen demand Carbonaceous BOD, CBOD	IL IL
Method SM 5220 D-2011 Chemical oxygen demand	IL
Method SM 5310 C-2011  Total organic carbon	IL
Method SM 5540 C-2011 Surfactants - MBAS	IL

Field of Testing /Matrix: CWA (Solid & Hazardous Material)	
Method EPA 160.4	
Residue-volatile	IL
	·-
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 351.2 Rev: 2	
Total Kjeldahl Nitrogen (TKN)	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Nitrite as N	IL
Method EPA 365.4	
Phosphorus	IL
Method EPA 420.1	
Total phenolics	IL
Method EPA 608.3 GC-ECD	
4,4'-DDD	IL
4,4'-DDE	IL IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL 
Toxaphene (Chlorinated camphene)	IL
Method EPA 624.1	
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL 
1,1-Dichloroethylene	IL 
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL 
1,2-Dichloroethane (Ethylene dichloride)	IL 
1,2-Dichloropropane	IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Solid & Hazardous Material) 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL 2-Chloroethyl vinyl ether IL Acetonitrile IL Acrolein (Propenal) IL IL Acrylonitrile Benzene IL Bromodichloromethane IL Bromoform IL Carbon tetrachloride IL Chlorobenzene IL Chlorodibromomethane IL Chloroethane (Ethyl chloride) IL Chloroform IL IL cis-1,3-Dichloropropene IL Ethylbenzene Methyl bromide (Bromomethane) IL Methyl chloride (Chloromethane) IL Methyl tert-butyl ether (MTBE) IL Methylene chloride (Dichloromethane) IL Tetrachloroethylene (Perchloroethylene) IL Toluene IL IL trans-1,2-Dichloroethylene trans-1,3-Dichloropropylene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL Vinyl chloride IL Xylene (total) IL Method EPA 625.1 1,2,4-Trichlorobenzene IL 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,6-Trichlorophenol IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol IL 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL 2-Nitrophenol IL IL 3,3'-Dichlorobenzidine 4-Bromophenyl phenyl ether IL 4-Chloro-3-methylphenol IL 4-Nitrophenol IL Acenaphthene IL Acenaphthylene IL Anthracene IL Benzidine IL Benzo(a)anthracene IL IL Benzo(a)pyrene Benzo(b)fluoranthene IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Solid & Hazardous Material)	
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL 
Hexachloroethane	IL 
Indeno(1,2,3-cd) pyrene	IL 
Isophorone	IL 
Naphthalene	IL 
Nitrobenzene	IL 
n-Nitrosodimethylamine	IL 
n-Nitrosodi-n-propylamine	IL 
n-Nitrosodiphenylamine	IL 
Pentachlorophenol	IL 
Phenanthrene Phenol	IL
	IL 
Pyrene	IL
Pyridine	IL
Method SM 2340 B-1997	
Hardness	IL
Method SM 2540 C-1997	
Residue-filterable (TDS)	IL
Method SM 2540 F-1997	
Residue-settleable	IL
Method SM 4500-CI C-1997	
Chloride	IL
Method SM 4500-Cl C-2011	16
	11
Chloride	IL
Method SM 4500-CI E-2000	
Chloride	IL
Method SM 4500-NO2 B-2011	
Nitrite	IL
Method SM 4500-NO3 F-2000	
Nitrate plus Nitrite as N	IL
Method SM 4500-P E-1999	
Orthophosphate as P	IL
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Certificate No.: 1002262023-17 Primary AB

Field of Testing /Matrix: CWA (Solid & Hazardous Material)

Method SM 4500-SO3 B-2000

Sulfite-SO3

Certificate No.: 1002262023-17 Primary AB

Certificate No.: 1002262023-17	· · · · · · · · · · · · · · · · · · ·
Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 1010A	
Ignitability	IL
Method EPA 1020B	
Ignitability	IL
Method EPA 1311 Rev: 0	
Toxicity Characteristic Leaching Procedure (TCLP)	IL
Method EPA 1312 Rev: 0	
Synthetic Precipitation Leaching Procedure (SPLP)	IL
Method EPA 6010B Rev: 2	"L
Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	iL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL 
Lithium	IL 
Magnesium	IL 
Manganese	IL IL
Molybdenum Nickel	IL IL
Phosphorus	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Strontium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL 
Zinc	IL
Method EPA 6020A Rev: 1	
Aluminum	IL
Antimony	IL 
Arsenic	IL 
Barium Bondlium	IL II
Beryllium Boron	IL IL
Boron Cadmium	IL IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
••	

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: RCRA (Non Potable Water) Iron IL Lead IL Magnesium IL Manganese IL Molybdenum IL Nickel IL Potassium IL Selenium IL Silver IL Sodium IL **Thallium** IL Vanadium IL IL Zinc Method EPA 7196A Rev: 1 Chromium VI IL Method EPA 7470A Rev: 1 Mercury IL Method EPA 8015B Rev: 2 IL Diesel range organics (DRO) Ethanol IL Ethylene glycol IL Isobutyl alcohol (2-Methyl-1-propanol) IL Isopropyl alcohol (2-Propanol, Isopropanol) IL IL Methanol n-Butyl alcohol (1-Butanol, n-Butanol) IL n-Propanol (1-Propanol) IL IL tert-Butyl alcohol Method EPA 8081B 4,4'-DDD IL 4,4'-DDE IL 4,4'-DDT IL Alachlor IL Aldrin IL IL alpha-BHC (alpha-Hexachlorocyclohexane) alpha-Chlordane, cis-Chlordane IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL Endosulfan I IL Endosulfan II IL Endosulfan sulfate IL **Endrin** IL Endrin aldehyde IL Endrin ketone IL gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL gamma-Chlordane IL Heptachlor IL Heptachlor epoxide IL Methoxychlor IL Toxaphene (Chlorinated camphene) IL

Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 8082 Rev: 0	
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
Method EPA 8151A	
2,4,5-T	IL
2,4-D	IL
2,4-DB	IL
3,5-Dichlorobenzoic acid	IL
4-Nitrophenol	IL
Acifluorfen	IL
Bentazon	IL
Chloramben	IL
Dalapon	IL
DCPA di acid degradate	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL IL
MCPP	IL "
Pentachlorophenol	IL "
Picloram	IL 
Silvex (2,4,5-TP)	IL
Method EPA 8260B	
1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1-Chlorobutane	IL
2,2-Dichloropropane	IL

ld of Testing /Matrix: RCRA (Non Potable Water)	
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	iL
2-Hexanone	iL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	ïL
Bromodichloromethane	ĪL.
Bromoform	iL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL.
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	iL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Di-isopropylether (DIPE) (Isopropyl Ether)	IL
Ethyl acetate	IL
Ethyl methacrylate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Hexachloroethane	IL
Iodomethane (Methyl iodide)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl acrylate	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butylbenzene	IL
Nitrobenzene	IL
n-Propylbenzene	iL

Certificate No.: 1002262023-17 Primary AB

Certificate 140 1002202011	
Field of Testing /Matrix: RCRA (Non Potable Water)	
o-Xylene	IL
Pentachloroethane	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butyl alcohol	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
	IL
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Method EPA 8270C Rev: 3	
	IL
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4-Chloroaniline	IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Non Potable Water) Field of Testing /Matrix: 4-Chlorophenyl phenylether IL 4-Dimethyl aminoazobenzene IL 4-Methylphenol (p-Cresol) IL 4-Nitroaniline IL 4-Nitrophenol IL 5-Nitro-o-toluidine IL IL 7,12-Dimethylbenz(a) anthracene IL Acenaphthene Acenaphthylene IL IL Acetophenone Aniline IL Anthracene IL Benzidine IL Benzo(a)anthracene IL IL Benzo(a)pyrene Benzo(b)fluoranthene IL IL Benzo(g,h,i)perylene IL Benzo(k)fluoranthene Benzoic acid IL Benzyl alcohol IL bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chlorobenzilate IL Chrysene IL IL Diallate Dibenz(a,h) anthracene IL Dibenzofuran IL Diethyl phthalate IL IL Dimethoate IL Dimethyl phthalate Di-n-butyl phthalate IL Di-n-octyl phthalate IL Diphenylamine IL Ethyl methanesulfonate IL **Famphur** IL Fluoranthene IL Fluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL Hexachlorocyclopentadiene IL Hexachloroethane IL Hexachloropropene IL Indeno(1,2,3-cd) pyrene IL Isodrin IL Isophorone IL Isosafrole IL Methyl methanesulfonate IL Naphthalene IL

Nitrobenzene

IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Non Potable Water)	
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosomethylethylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
o,o,o-Triethyl phosphorothioate	IL
Parathion	IL
Pentachlorobenzene	IL
Pentachloronitrobenzene	IL
Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pronamide (Kerb)	IL
Pyrene	IL
Pyridine	IL
Safrole	IL
Method EPA 8270C Mod LVI	
Acetochlor	IL
Alachlor	IL
Atrazine	IL
Butylate	IL
Cyanazine	IL
EPTC (Eptam, s-ethyl-dipropyl thio carbamate)	IL
Metolachlor	IL 
Metribuzin	IL 
Pendimethalin (Penoxalin)	IL 
Simazine	IL 
Trifluralin (Treflan)	IL
Method EPA 9012A Rev: 1	
Cyanide	IL
Method EPA 9014 Rev: 0	
Cyanide	IL
Method EPA 9020B Rev: 2	
Total organic halides (TOX)	IL
Method EPA 9023 Rev: 0	· <del>-</del>
Extractable organics halides (EOX)	IL
	IL
Method EPA 9036 Rev: 0	
Sulfate	IL
Method EPA 9040B Rev: 2	
pH	IL
Method EPA 9050A Rev: 1	
Conductivity	IL
Method EPA 9060A	
Total organic carbon	IL
Method EPA 9065 Rev: 0	. <u>-</u>
	IL
Total phenolics	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 9066 Rev: 0 Total phenolics	IL
Method EPA 9095A Paint Filter Test	IL
Method EPA 9214 Rev: 0 Fluoride	IL
Method EPA 9251 Rev: 0 Chloride	IL

Certificate No.: 1002262023-17

Certificate No.: 1002262023-17	
Field of Testing /Matrix: RCRA (Solid & Hazardous Material)	
Method EPA 1010A	
Ignitability	IL
Method EPA 1020B	
Ignitability	IL
Method EPA 1311 Rev: 0	
Toxicity Characteristic Leaching Procedure (TCLP)	IL
Method EPA 1312 Rev: 0	12
Synthetic Precipitation Leaching Procedure (SPLP)	IL
	IL
Method EPA 6010B Rev: 2  Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL 
Lithium	IL 
Magnesium	IL "
Manganese	IL IL
Molybdenum Nickel	IL
Phosphorus	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Strontium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL 
Zinc	IL
Method EPA 6020A Rev: 1	
Aluminum	IL
Antimony	IL 
Arsenic	IL "
Barium Barilium	IL IL
Beryllium Boron	IL IL
Cadmium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Lead IL Magnesium IL IL Manganese Molybdenum IL Nickel IL IL Potassium Selenium IL Silver IL Sodium IL **Thallium** IL Vanadium IL Zinc IL Method EPA 7196A Rev: 1 IL Chromium VI Method EPA 7471B Mercury IL Method EPA 8015B Rev: 2 Diesel range organics (DRO) IL IL Ethanol Ethylene glycol IL Isobutyl alcohol (2-Methyl-1-propanol) IL Isopropyl alcohol (2-Propanol, Isopropanol) IL Methanol IL IL n-Butyl alcohol (1-Butanol, n-Butanol) n-Propanol (1-Propanol) IL tert-Butyl alcohol IL Method EPA 8081B 4,4'-DDD IL 4,4'-DDE IL 4,4'-DDT IL Alachlor IL Aldrin IL alpha-BHC (alpha-Hexachlorocyclohexane) IL alpha-Chlordane, cis-Chlordane IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL Endosulfan I IL Endosulfan II IL Endosulfan sulfate IL Endrin IL IL Endrin aldehyde IL Endrin ketone gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL gamma-Chlordane IL Heptachlor IL Heptachlor epoxide IL IL Methoxychlor Toxaphene (Chlorinated camphene) IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Aroclor-1016 (PCB-1016) IL Aroclor-1221 (PCB-1221) IL Aroclor-1232 (PCB-1232) IL Aroclor-1242 (PCB-1242) IL Aroclor-1248 (PCB-1248) IL Aroclor-1254 (PCB-1254) IL Aroclor-1260 (PCB-1260) IL Method EPA 8151A 2.4.5-T IL 2,4-D IL 2,4-DB IL 3,5-Dichlorobenzoic acid IL IL 4-Nitrophenol IL Acifluorfen IL Bentazon Chloramben IL Dalapon IL DCPA di acid degradate IL Dicamba IL Dichloroprop (Dichlorprop) IL Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) IL **MCPA** IL **MCPP** IL IL Pentachlorophenol Picloram IL Silvex (2,4,5-TP) IL Method EPA 8260B 1,1,1,2-Tetrachloroethane IL IL 1,1,1-Trichloroethane IL 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) IL 1,1,2-Trichloroethane IL 1,1-Dichloroethane IL 1,1-Dichloroethylene IL 1,1-Dichloropropene IL IL 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane IL 1,2,4-Trichlorobenzene IL IL 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane (DBCP) IL 1,2-Dibromoethane (EDB, Ethylene dibromide) IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,2-Dichloroethane (Ethylene dichloride) IL 1,2-Dichloropropane IL 1,3,5-Trimethylbenzene IL IL 1,3-Dichlorobenzene 1,3-Dichloropropane IL 1,4-Dichlorobenzene IL 1-Chlorobutane IL 2,2-Dichloropropane IL 2-Butanone (Methyl ethyl ketone, MEK) IL

Certificate No.: 1002262023-17 Primary AB

ld of Testing /Matrix: RCRA (Solid & Hazardous Material)	
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	iL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	L
Bromodichloromethane	L "
Bromoform	IL 
Carbon disulfide	IL
Carbon tetrachloride	IL 
Chlorobenzene	IL 
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Di-isopropylether (DIPE) (Isopropyl Ether)	IL
Ethyl acetate	IL
Ethyl methacrylate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Hexachloroethane	IL
lodomethane (Methyl iodide)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl acrylate	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	iL
Naphthalene	IL
n-Butylbenzene	IL
Nitrobenzene	IL
n-Propylbenzene	IL
o-Xylene	IL
Pentachloroethane	IL IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Propionitrile (Ethyl cyanide) IL p-Xylene IL sec-Butylbenzene IL Styrene IL tert-Butyl alcohol IL tert-Butylbenzene IL IL Tetrachloroethylene (Perchloroethylene) IL Tetrahydrofuran (THF) Toluene IL trans-1,2-Dichloroethylene IL trans-1,3-Dichloropropylene IL trans-1,4-Dichloro-2-butene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL Vinyl acetate IL Vinyl chloride IL IL Xylene (total) Method EPA 8270C Rev: 3 1,2,4-Trichlorobenzene IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL IL 1,4-Dioxane (1,4- Diethyleneoxide) 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,5-Trichlorophenol IL 2,4,6-Trichlorophenol IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol IL 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL IL 2-Methylaniline (o-Toluidine) 2-Methylnaphthalene IL 2-Methylphenol (o-Cresol) IL 2-Nitroaniline IL 2-Nitrophenol IL 3,3'-Dichlorobenzidine IL 3-Methylphenol (m-Cresol) IL IL 3-Nitroaniline IL 4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol IL 4-Chloroaniline IL 4-Chlorophenyl phenylether IL 4-Methylphenol (p-Cresol) IL4-Nitroaniline IL 4-Nitrophenol IL Acenaphthene IL

Acenaphthylene

Aniline

IL

IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: RCRA (Solid & Hazardous Material) Anthracene IL Benzo(a)anthracene IL Benzo(a)pyrene IL Benzo(b)fluoranthene IL Benzo(g,h,i)perylene IL Benzo(k)fluoranthene IL IL Benzoic acid IL Benzyl alcohol bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chrysene IL IL Dibenz(a,h) anthracene Dibenzofuran IL IL Diethyl phthalate Dimethyl phthalate IL Di-n-butyl phthalate IL Di-n-octyl phthalate IL Fluoranthene IL Fluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL Hexachlorocyclopentadiene IL Hexachloroethane IL Indeno(1,2,3-cd) pyrene IL Isophorone IL Naphthalene IL Nitrobenzene IL n-Nitrosodiethylamine IL n-Nitrosodimethylamine IL n-Nitrosodi-n-propylamine IL n-Nitrosodiphenylamine IL IL n-Nitrosomethylethylamine Pentachlorobenzene IL Pentachlorophenol IL Phenanthrene IL Phenol IL Pyrene IL **Pyridine** IL Method EPA 8270C Mod LVI Acetochlor IL Alachlor IL **Atrazine** IL Butylate IL Cyanazine IL EPTC (Eptam, s-ethyl-dipropyl thio carbamate) IL Metolachlor IL Metribuzin IL IL Pendimethalin (Penoxalin)

Simazine

IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Solid & Hazardous Material)  Trifluralin (Treflan)	IL
Method EPA 9012A Rev: 1 Cyanide	IL
Method EPA 9014 Rev: 0  Cyanide	IL
Method EPA 9020B Rev: 2  Total organic halides (TOX)	IL
Method EPA 9023 Rev: 0 Extractable organics halides (EOX)	IL
Method EPA 9034 Rev: 0 Sulfide	IL
Method EPA 9036 Rev: 0 Sulfate	IL
Method EPA 9045C Rev: 3 pH	IL
Method EPA 9060A  Total organic carbon	IL
Method EPA 9065 Rev: 0  Total phenolics	IL
Method EPA 9214 Rev: 0 Fluoride	IL

Field of Testing /Matrix: SDWA (Potable Water)	
Method EPA 180.1 Rev: 2	
Turbidity	IL
Method EPA 200.7 Rev: 4.4	
Aluminum	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Copper	IL
Iron	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Silver	IL
Sodium	IL
Vanadium	IL
Zinc	IL
Method EPA 200.8 Rev: 5.4	
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Cadmium	IL
Chromium	IL
Copper	IL
Lead	IL
Manganese	IL 
Molybdenum	IL 
Nickel	IL 
Selenium	IL "
Silver	IL "
Thallium	IL "
Zinc	IL
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 335.4 Rev: 1	
Cyanide	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Method SM 2130 B Rev: 20th ED	
Turbidity	IL
Method SM 2320 B Rev: 23rd ED	-
Alkalinity as CaCO3	IL
	IL
Method SM 2340 B Rev: 23rd ED	11
Hardness	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: SDWA (Potable Water)	
Method SM 2510 B Rev: 21st ED  Conductivity	IL
Method SM 2540 C Rev: 23rd ED  Total dissolved solids	IL
Method SM 4500-CI G Rev: 20th ED  Total chlorine	IL
Method SM 4500-F C Rev: 23rd ED Fluoride	IL
Method SM 4500-H+ B Rev: 21st ED pH	IL
Method SM 4500-NO2 B Rev: 23rd ED  Nitrite	IL
Method SM 4500-P E Rev: 23rd ED Orthophosphate as P	IL
Method SM 4500-SiO2 D Rev: 23rd ED Silica as SiO2	IL
Method SM 5310 C Rev: 21st ED  Dissolved organic carbon (DOC)  Total organic carbon	IL IL
End of Scope of Accreditation	

## MISSOURI DEPARTMENT OF NATURAL RESOURCES

## DRINKING WATER LABORATORY

## CERTIFIED PARAMETER LIST

This is to certify that

## Teklab, Incorporated

located at

## 5445 Horseshoe Lake Road, Collinsville, IL 62234

has been approved to perform the indicated procedures on drinking water under the Missouri Public Drinking Water Regulations (10 CSR 60-5.020). Specific method numbers or references are included in parenthesis when appropriate.

## **INORGANIC**

EPA 335.4 Total Cyanide

**EPA 353.2**Nitrate, Nitrite, Total Nitrate and Nitrite

EPA 245.1 Mercury

EPA 200.7

Barium, Beryllium, Cadmium, Chromium, Copper, Nickel

**EPA 200.8** 

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Thallium

SM4500F-C Fluoride

SM4500NO2-B Nitrite

Teklab, Incorporated

**Expiration Date: January 31, 2025** 

Missouri Certificate No.: 930 Original Certifying State: Illinois