January 12, 2024

Bill Pietroburgo
Professional Environmental Engineers, Inc.
2665 Scott Ave., Suite B
St. Louis, MO 63103
TEL: (314) 531-0060
FAX: (314) 531-0068

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

RE: De Soto School District- Athena **WorkOrder:** 23122088

Dear Bill Pietroburgo:

TEKLAB, INC received 30 samples on 12/28/2023 3:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley

Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com

Report Contents

Client: Professional Environmental Engineers, Inc. **Work Order:** 23122088

Client Project: De Soto School District- Athena **Report Date:** 12-Jan-24

This reporting package includes the following:

Client: Professional Environmental Engineers, Inc. **Work Order:** 23122088

Client Project: De Soto School District- Athena **Report Date:** 12-Jan-24

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Professional Environmental Engineers, Inc. **Work Order:** 23122088

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Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Professional Environmental Engineers, Inc.
Work Order: 23122088
Client Project: De Soto School District- Athena
Report Date: 12-Jan-24

Cooler Receipt Temp: NA °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Professional Environmental Engineers, Inc. **Work Order:** 23122088

Client Project: De Soto School District- Athena **Report Date:** 12-Jan-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		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Professional Environmental Engineers, Inc. **Work Order:** 23122088

Client Project: De Soto School District- Athena **Report Date:** 12-Jan-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
23122088-001A	AE-F-TS-G-1	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:07	12/22/2023 10:27
23122088-002A	AE-WC-HA-G-2	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:11	12/22/2023 10:24
23122088-003A	AE-BF-HA-G-3	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:15	12/22/2023 10:25
23122088-004A	AE-WC-HB-1-4	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:19	12/22/2023 10:07
23122088-005A	AE-WC-HC-1-5	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:48	12/22/2023 10:00
23122088-006A	AE-BF-HC-1-6	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:52	12/22/2023 10:01
23122088-007A	AE-WC-HC-1-7	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 18:56	12/22/2023 10:03
23122088-008A	AE-F-312-1-8	NELAP		1.0	**5.2**	µg/L	1	01/11/2024 19:00	12/22/2023 10:05
23122088-009A	AE-F-405-1-9	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:04	12/22/2023 10:16
23122088-010A	AE-F-406-1-10	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:08	12/22/2023 10:18
23122088-011A	AE-WC-HD-1-11	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:17	12/22/2023 10:11
23122088-012A	AE-BF-HD-1-12	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:13	12/22/2023 10:12
23122088-013A	AE-WC-HD-1-13	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:50	12/22/2023 10:13
23122088-014A	AE-WC-HD-1-14	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 19:54	12/22/2023 10:15
23122088-015A	AE-LIB-1-15	NELAP		1.0	**1.7**	µg/L	1	01/11/2024 19:58	12/22/2023 9:35
23122088-016A	AE-WC-CAFÉ-1-16	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 20:02	12/22/2023 9:55
23122088-017A	AE-KF-KIT-1-17	NELAP		1.0	**1.1**	µg/L	1	01/11/2024 20:06	12/22/2023 9:49
23122088-018A	AE-WF-KIT-1-18	NELAP		1.0	**< 1.0**	µg/L	1	01/11/2024 20:10	12/22/2023 9:44
23122088-019A	AE-WF-KIT-1-19	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:25	12/22/2023 9:46
23122088-020A	AE-WF-KIT-1-20	NELAP		1.0	**3.7**	µg/L	1	01/10/2024 18:29	12/22/2023 9:47
23122088-021A	AE-KF-KIT-1-21	NELAP		1.0	**1.7**	µg/L	1	01/10/2024 18:32	12/22/2023 9:52
23122088-022A	AE-IM-KIT-1-22	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:36	12/22/2023 9:51
23122088-023A	AE-SN-KIT-1-23	NELAP		1.0	**2.5**	µg/L	1	01/10/2024 18:40	12/22/2023 9:54
23122088-024A	AE-F-N-1-24	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:43	12/22/2023 9:38
23122088-025A	AE-WC-HE-1-25	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:47	12/22/2023 9:31
23122088-026A	AE-BF-HE-1-26	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:51	12/22/2023 9:32
23122088-027A	AE-WC-HE-1-27	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:54	12/22/2023 9:29
23122088-028A	AE-WC-HF-1-28	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 18:58	12/22/2023 9:25
23122088-029A	AE-BF-HF-1-29	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 19:13	12/22/2023 9:26
23122088-030A	AE-WC-HF-1-30	NELAP		1.0	**< 1.0**	µg/L	1	01/10/2024 19:16	12/22/2023 9:27

Receiving Check List

http://www.teklabinc.com/

Client: Professional Environmental Engineers, Inc.
Work Order: 23122088
Client Project: De Soto School District- Athena
Report Date: 12-Jan-24

Carrier: Employee
Received By: CET

Completed by: Mary E Kemp
On: 28-Dec-23

Reviewed by: Ellie Hopkins
On: 28-Dec-23

Pages to follow: Chain of custody 3 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	NA	
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. - MaryKemp - 12/28/2023 4:15:01 PM

CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 23122088

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

Client: Professional Environmental Engineers, Inc.
Address: 2665 Scott Avenue
City/State/Zip: St. Louis, MO 63103
Contact: Bill Pietroburgo Phone: 314-531-0060
Email: bpietroburgo@pe-engrs.com Fax: 314-531-0068

Samples on: ☐ ICE ☐ BLUE ICE ☒ NO ICE N/A °C
Preserved in: ☐ LAB ☐ FIELD
FOR LAB USE ONLY
LAB NOTES:

Client Comments:
5 ppb

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER: De Soto School District - Athena
SAMPLE COLLECTOR'S NAME: Michael Thierry

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Lead in Drinking Water
23122088-001	AE-F-TS-G-1	12/22/23, 1027	Drinking Water	x									✓
002	AE-WC-HA-G-2	12/22/23, 1024	Drinking Water	x									✓
003	AE-BF-HA-G-3	12/22/23, 1025	Drinking Water	x									✓
004	AE-WC-HB-1-4	12/22/23, 1007	Drinking Water	x									✓
005	AE-WC-HC-1-5	12/22/23, 1000	Drinking Water	x									✓
006	AE-BF-HC-1-6	12/22/23, 1001	Drinking Water	x									✓
007	AE-WC-HC-1-7	12/22/23, 1003	Drinking Water	x									✓
008	AE-F-312-1-8	12/22/23, 1005	Drinking Water	x									✓
009	AE-F-405-1-9	12/22/23, 1016	Drinking Water	x									✓
010	AE-F-406-1-10	12/22/23, 1018	Drinking Water	x									✓
011	AE-WC-HD-1-11	12/22/23, 1011	Drinking Water	x									✓

Relinquished By	Date/Time	Received By	Date/Time
Michael Thierry	12/23/23, 1200		12/23/23
	12/28/23 1500		12/28/23 1530

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 3 Workorder # 23122088

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

Client: Professional Environmental Engineers, Inc.
Address: 2665 Scott Avenue
City/State/Zip: St. Louis, MO 63103
Contact: Bill Pietroburgo Phone: 314-531-0060
Email: bpietroburgo@pe-engrs.com Fax: 314-531-0068

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

Client Comments:
5 ppb

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No

PROJECT NAME/NUMBER: De Soto School District - Athena
SAMPLE COLLECTOR'S NAME: Michael Thierry

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Lead in Drinking Water
23122088-012	AE-BF-HD-1-12	12/22/23, 1012	Drinking Water	x									✓
013	AE-WC-HD-1-13	12/22/23, 1013	Drinking Water	x									✓
014	AE-WC-HD-1-14	12/22/23, 1015	Drinking Water	x									✓
015	AE-LIB-1-15	12/22/23, 0935	Drinking Water	x									✓
016	AE-WC-CAFE-1-16	12/22/23, 0955	Drinking Water	x									✓
017	AE-KF-KIT-1-17	12/22/23, 0949	Drinking Water	x									✓
018	AE-WF-KIT-1-18	12/22/23, 0944	Drinking Water	x									✓
019	AE-WF-KIT-1-19	12/22/23, 0946	Drinking Water	x									✓
020	AE-WF-KIT-1-20	12/22/23, 0947	Drinking Water	x									✓
021	AE-KF-KIT-1-21	12/22/23, 0952	Drinking Water	x									✓
022	AE-IM-KIT-1-22	12/22/23, 0951	Drinking Water	x									✓

Relinquished By	Date/Time	Received By	Date/Time
Michael Thierry	12/23/23, 1200		12/23/23
	12/23/23 1500		12/26/23 1530

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Print PDF

CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 23122088

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Address: 2665 Scott Avenue
City/State/Zip: St. Louis, MO 63103
Contact: Bill Pietroburgo Phone: 314-531-0060
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Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
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? ☐ 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:
5 ppb

PROJECT NAME/NUMBER: De Soto School District - Athena
SAMPLE COLLECTOR'S NAME: Michael Thierry

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Lead in Drinking Water
23122088-023	AE-SN-KIT-1-23	12/22/23, 0954	Drinking Water	x									✓
024	AE-F-N-1-24	12/22/23, 0938	Drinking Water	x									✓
025	AE-WC-HE-1-25	12/22/23, 0931	Drinking Water	x									✓
026	AE-BF-HE-1-26	12/22/23, 0932	Drinking Water	x									✓
027	AE-WC-HE-1-27	12/22/23, 0929	Drinking Water	x									✓
028	AE-WC-HF-1-28	12/22/23, 0925	Drinking Water	x									✓
029	AE-BF-HF-1-29	12/22/23, 0926	Drinking Water	x									✓
~~0030~~	AE-WC-HF-1-30	12/22/23, 0927	Drinking Water	x									✓
TE mail	12/28/23		Drinking Water										
			Drinking Water										
			Drinking Water										

Relinquished By	Date/Time	Received By	Date/Time
Michael Thierry	12/23/23, 1200		
	12/28/23 1500		12/28/23 1530

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