

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
MIDWAY HEIGHTS ELEMENTARY SCHOOL
8130 WEST HWY 40
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

JULY 19, 2024

Project No.:

J044517.01







Environmental
Geotechnical Engineering
Materials Testing
Field Inspections & Code Compliance
Geophysical Technology

July 19, 2024

Mr. David Seamon District Project Manager Columbia Public Schools 1818 West Worley Street Columbia, Missouri 65203

Re: Water Sampling and Reporting Services

Columbia Public Schools

Midway Heights Elementary School

8130 West Hwy 40 Columbia, Missouri Project No. J044517.01

Dear Mr. Seamon:

In accordance with Columbia Public Schools' (CPS) Request for Proposal No. C-24043, dated October 10, 2023, Geotechnology, LLC, dba UES, is pleased to provide this drinking water sampling report for the referenced project. Our scope of services included flushing and sampling of drinking water from potable water outlets, laboratory analysis of water samples, and a letter report.

SITE AND PROJECT DESCRIPTION

The subject property consists of the existing Columbia Public Schools Midway Heights Elementary School, located southeast of the intersection of North Briarcrest Drive and West Hwy 40 in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

DRINKING WATER SAMPLING

RSMo 160.077 sets standards for lead concentrations in school drinking water, stating that each Missouri school shall provide drinking water with a lead concentration level below five (5) parts per billion (ppb). This Act requires schools to conduct the inventory, sampling, remediation, and monitoring at all potable drinking water outlets used or potentially used for drinking, food preparation, and cooking or cleaning utensils.

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities manual, initial water flushing and sampling activities were conducted on December 21 and 22, 2023, and January 3 and 4, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor, and Mr. Seth Lamble, a Missouri-licensed lead inspector. Copies of training



certificates and lead licenses for Messrs. Lohrum, Haefner, and Lamble are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. A copy of the drinking water sampling form, which includes a list of sample locations, and the times and dates of flushing and sampling activities, is included in Appendix B. A floor plan depicting approximate sample locations is included as Figures 1.

Using standard chain-of-custody procedures, the drinking water samples were submitted to Teklab, Inc. of Collinsville, Illinois, an independent, certified Missouri Department of Natural Resources (MDNR) Drinking Water and National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, for analysis of lead content via EPA Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry.

RESULTS

Laboratory analyses of the submitted samples did not detect the presence of lead at or above 5 ppb.

UES will not be able to represent that the site contains no lead-bearing water outlets beyond those detected or observed by UES during flushing and sampling activities. Copies of the drinking water analytical results are included in Appendix C.

RECOMMENDATIONS

Our recommendations are summarized below:

• If additional drinking water outlets not covered by this report should be identified or put into use, further sampling and testing should be conducted.

* * * * * *

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Form

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

* * * * * *



We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj





APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 12/12/2022 - 189152

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

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 sh.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 HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

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: 1/20/2023
Expiration Date: 1/20/2025

License Number: 230120-300006460

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

Davea I. Nichel



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

has attended 8 contact hours of training and successfully passed examination for

Lead Risk Assessor Refresher

St. Louis, MO

Certificate #

CEET 325 3/6/2023

118035

Examination Date:

3/6/2023

CEUs: 0.8

)35

Rene Dulle, MBA, Director

Center for Environmental Education & Training

Center for Environmental Education and Training | 3545 Lafayette Ave., St. Louis, MO 63104 (314) 977-8256 |slu.edu/public-health-social-justice/centers-institutes/ceet.php

The training course has been accredited by the Missouri Dept, of Health and Senior Services, and by the Illinois Dept, of Public Health. Certificate expiration is 3 years from examination date for Illinois Dept, of Public Health.

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to

Robert J. Haefner

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: Expiration Date:

License Number:

3/28/2023

3/30/2025

150330-300004672

POPULI SUPREN

Paula F. Nickelson

Acting Director

Department of Health and Senior Services

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

COLLEGE FOR PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

contact hours of training and successfully passed an examination has attended

Lead Inspector Refresher

St. Louis, MO

Certificate #

CEET 315

1/4/2022

118633

Examination Date:

CEUs: 0.8

1/4/2022

Director, Center for Environmental **Education and Training**

Christopher C. King PhD

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 HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Seth P. Lamble

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 Inspector

Category of License

Issuance Date: 4/25/2022 Expiration Date: 4/25/2024

License Number: 160425-300004897

Paula F. Nickelson Acting Director

Daves I. Nichels

Department of Health and Senior Services

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

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology, LLC

11816 Lackland Road, Suite 150 St. Louis, MO 63146

Issuance Date: 2/8/2022 Expiration Date: 2/8/2024

License Number: 060208-0095



Donald G. Kauerauf Director

Department of Health and Senior Services

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



APPENDIX B

DRINKING WATER SAMPLING FORM



DRINKING WATER SAMPLING FORM

Page 1 of 1

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Midway Heights Elementary School

Project Number: J044517.01

Address: 8130 West Hwy 40

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MHE-01	BF	Hallway at Room 125	RJH - 12/21/23 - 14:25	RJH - 12/22/23 - 1:21
MHE-02	WF	Hallway at Room 125	RJH - 12/21/23 - 14:25	RJH - 12/22/23 - 1:21
MHE-03	S	Room 125	BJL - 12/21/23 - 14:27	RJH - 12/22/23 - 1:23
MHE-04	WF	Gym	RJH - 12/21/23 - 14:29	RJH - 12/22/23 - 1:26
MHE-05	BF	Cafeteria	RJH - 12/21/23 - 14:31	RJH - 12/22/23 - 1:27
MHE-06	WF	2nd Floor Hallway - Right	RJH - 12/21/23 - 14:37	RJH - 12/22/23 - 1:29
MHE-07	BF	2nd Floor Hallway - Left	RJH - 12/21/23 - 14:37	RJH - 12/22/23 - 1:29
MHE-08	WF	2nd Floor Hallway - Left	RJH - 12/21/23 - 14:37	RJH - 12/22/23 - 1:29
MHE-09	WF	Hallway at Room 102 - Left	RJH - 12/21/23 - 14:40	RJH - 12/22/23 - 1:32
MHE-10	WF	Hallway at Room 102 - Right	RJH - 12/21/23 - 14:40	RJH - 12/22/23 - 1:32
MHE-11	WF	Hallway at Room 103 - Left	RJH - 12/21/23 - 14:42	RJH - 12/22/23 - 1:34
MHE-12	WF	Hallway at Room 103 - Right	RJH - 12/21/23 - 14:42	RJH - 12/22/23 - 1:34
MHE-13	WF	Hallway at Room 112 - Left	RJH - 12/21/23 - 14:47	RJH - 12/22/23 - 1:36
MHE-14	BF	Hallway at Room 112 - Right	RJH - 12/21/23 - 14:47	RJH - 12/22/23 - 1:36
MHE-15	WF	Hallway at Room 112 - Right	RJH - 12/21/23 - 14:47	RJH - 12/22/23 - 1:36
MHE-16	S	Kitchen - Hot Pan	SPL 1/3/24 - 18:13	SPL - 1/4/24 - 4:53
MHE-17	S	Kitchen - Dish Wash - Left	SPL 1/3/24 - 18:13	SPL - 1/4/24 - 4:53
MHE-18	S	Kitchen - Dish Wash - Center	SPL 1/3/24 - 18:13	SPL - 1/4/24 - 4:53
MHE-19	S	Kitchen - Dish Wash - Right	SPL 1/3/24 - 18:13	SPL - 1/4/24 - 4:53
MHE-20	S	Kitchen - Food Prep	SPL 1/3/24 - 18:13	BJL - 1/4/24 - 4:53
MHE-21	S	Kitchen - Steam Table	SPL 1/3/24 - 18:13	BJL - 1/4/24 - 4:53



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



January 11, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 23121855

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 12/22/2023 4:20:00 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 Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121855

Client Project: J044517.01

Report Date: 11-Jan-24

This reporting package includes the following:

Cover Letter	1
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Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-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 Project: J044517.01

Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Report Date: 11-Jan-24

Qualifiers

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)

- # Unknown hydrocarbon
- 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
 - Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Work Order: 23121855

Report Date: 11-Jan-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: NA °C

Client Project: J044517.01

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: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-Jan-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	, 200.8 R5.4, META	LS BY ICPMS (TOTAL	.)					
Lead								
23121855-001		NELAP	1.0	< 1.0	μg/L	1	01/09/2024 21:40	12/22/2023 1:21
23121855-002		NELAP	1.0	< 1.0	μg/L	1	01/09/2024 21:44	12/22/2023 1:21
23121855-003		NELAP	1.0	< 1.0	μg/L	1	01/09/2024 21:48	12/22/2023 1:23
23121855-004		NELAP	1.0	1.9	μg/L	1	01/05/2024 14:00	12/22/2023 1:26
23121855-005		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 14:03	12/22/2023 1:27
23121855-006		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 14:07	12/22/2023 1:29
23121855-007		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 14:11	12/22/2023 1:29
23121855-008		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 14:14	12/22/2023 1:29
23121855-009		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:12	12/22/2023 1:32
23121855-010		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:16	12/22/2023 1:32
23121855-011		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:21	12/22/2023 1:34
23121855-012		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:25	12/22/2023 1:34
23121855-013		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:30	12/22/2023 1:36
23121855-014		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:34	12/22/2023 1:36
23121855-015		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:38	12/22/2023 1:36
23121855-016		NELAP	1.0	3.2	µg/L	1	01/05/2024 10:33	12/21/2023 22:52
23121855-017		NELAP	1.0	2.7	µg/L	1	01/05/2024 10:38	12/21/2023 22:53
23121855-018		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:42	12/21/2023 22:53
23121855-019	A NHE-04	NELAP	1.0	2.1	µg/L	1	01/05/2024 10:46	12/21/2023 22:55
23121855-020	A NHE-05	NELAP	1.0	1.5	µg/L	1	01/05/2024 10:51	12/21/2023 22:57
23121855-021		NELAP	1.0	2.4	µg/L	1	01/05/2024 10:55	12/21/2023 22:58
23121855-022	A NHE-07	NELAP	1.0	2.2	µg/L	1	01/05/2024 11:25	12/21/2023 22:58
23121855-023	A NHE-08	NELAP	1.0	1.7	µg/L	1	01/05/2024 11:29	12/21/2023 23:00
23121855-024	A NHE-09	NELAP	1.0	1.1	µg/L	1	01/05/2024 10:59	12/21/2023 23:01
23121855-025	A NHE-10	NELAP	1.0	6.8	µg/L	1	01/05/2024 11:34	12/21/2023 23:03
23121855-026	A NHE-11	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:38	12/21/2023 23:04
23121855-027	A NHE-12	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:42	12/21/2023 23:05
23121855-028	A NHE-13	NELAP	1.0	2.1	µg/L	1	01/05/2024 11:47	12/21/2023 23:07
23121855-029	A NHE-14	NELAP	1.0	2.3	µg/L	1	01/05/2024 11:51	12/21/2023 23:07
23121855-030	A NHE-15	NELAP	1.0	< 1.0	µg/L	1	01/04/2024 17:33	12/21/2023 23:09
23121855-031	A NHE-16	NELAP	1.0	5.4	µg/L	1	01/04/2024 17:38	12/21/2023 23:11
23121855-032	A NHE-17	NELAP	1.0	< 1.0	µg/L	1	01/04/2024 17:42	12/21/2023 23:12
23121855-033	A NHE-18	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 9:33	12/21/2023 23:13
23121855-034	A NHE-19	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:04	12/21/2023 23:18
23121855-035	A NHE-20	NELAP	1.0	1.3	µg/L	1	01/03/2024 2:34	12/21/2023 23:15
23121855-036	A NHE-21	NELAP	1.0	7.0	µg/L	1	01/03/2024 2:38	12/21/2023 23:22
23121855-037	A NHE-22	NELAP	1.0	7.6	µg/L	1	01/04/2024 17:46	12/21/2023 23:22
23121855-038	A NHE-23	NELAP	1.0	4.0	µg/L	1	01/03/2024 2:42	12/21/2023 23:27
23121855-039	A NHE-24	NELAP	1.0	1.2	µg/L	1	01/03/2024 2:47	12/21/2023 23:27
23121855-040	A NHE-25	NELAP	1.0	3.1	µg/L	1	01/03/2024 2:51	12/21/2023 23:28
23121855-041	A NHE-26	NELAP	1.0	1.6	µg/L	1	01/05/2024 12:09	12/21/2023 23:28
23121855-042	A PES-01	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:13	12/21/2023 9:31
23121855-043	A PES-02	NELAP	1.0	< 1.0	μg/L	1	01/05/2024 12:17	12/21/2023 9:32
23121855-044	A PES-03	NELAP	1.0	< 1.0	μg/L	1	01/05/2024 12:20	12/21/2023 9:33
23121855-045	A PES-04	NELAP	1.0	< 1.0	μg/L	1	01/05/2024 12:24	12/21/2023 9:33
23121855-046		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 12:28	12/21/2023 9:33
23121855-047		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 12:31	12/21/2023 9:35
23121855-048		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:35	12/21/2023 9:36



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-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	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)					
Lead		·						
23121855-049	A PES-08	NELAP	1.0	1.4	μg/L	1	01/05/2024 12:39	12/21/2023 9:37
23121855-050	A PES-09	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:53	12/21/2023 9:37
23121855-051	A PES-10	NELAP	1.0	2.1	µg/L	1	01/05/2024 12:57	12/21/2023 9:38
23121855-052	A PES-11	NELAP	1.0	2.9	µg/L	1	01/05/2024 13:01	12/21/2023 9:39
23121855-053	A PES-12	NELAP	1.0	1.8	µg/L	1	01/05/2024 13:12	12/21/2023 9:40
23121855-054	A PES-13	NELAP	1.0	1.9	µg/L	1	01/05/2024 13:16	12/21/2023 9:41
23121855-055	A PES-14	NELAP	1.0	1.5	µg/L	1	01/05/2024 13:19	12/21/2023 9:42
23121855-056	A PES-15	NELAP	1.0	1.5	µg/L	1	01/05/2024 13:23	12/21/2023 9:42
23121855-057	A PES-16	NELAP	1.0	2.5	µg/L	1	01/05/2024 13:27	12/21/2023 9:43
23121855-058	A PES-17	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 13:41	12/21/2023 9:45
23121855-059	A PES-18	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 13:52	12/21/2023 9:45
23121855-060	A PES-19	NELAP	1.0	3.7	µg/L	1	01/05/2024 13:56	12/21/2023 9:48



Receiving Check List

http://www.teklabinc.com/

Work Order: 23121855 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 11-Jan-24 Carrier: Brad Lohrum Received By: PWR Completed by: Mary E. Kemp Reviewed by: On: On: 26-Dec-23 26-Dec-23 Mary E Kemp Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? **~** Yes No L **V** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** 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 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 12/26/2023 8:57:18 AM

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

CHAIN OF CUSTODY pg. 7 of 2 | Work order # 23/2/855

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

Client: Address:																® 8		- 11			7	VA				/	
Address.	11816 Lackland F	Road								Р	rese	rve	d in	: 📓	LAB		IELD	1	•	FC	<u>)R L</u>	AB I	<u>USE</u>	ONL	<u>_Y</u>		
City / State / Zip	St. Louis, MO 63	146								L	ab N	lote	s														
-	_ohrum		_ Phone	:	(314)	997	-7440																				
E-Mail: blohru	m@geotechnology.	com	_ Fax:							CI	ient	Cor	nm	ents	\.									-			
Are these samples know Are these samples know Are there any required re imits in the comment se	n to be hazardous? porting limits to be retion.	If yes, include on the requence No	letails of the h	nazar s?. If	d. yes, p	Ye:	e prov	C No																			
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CHAIN OF CUSTODY

pg. 8 of 2) Work order # 23/2/969

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

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City / State	/ Zip	St. Lo	ouis, MO 63	146											_	L	.ab	No	tes	;																
Contact:	Brad Lo	hrum					Phon	e:	(314)	997	7-744	1 0																							
E-Mail:	blohrun	1@gec	technology.	com			Fax:		_						_	CI	lien	t C	OR	m	ante	······································														
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January 30, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24010445

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/5/2024 1:15:00 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

Project Manager (618)344-1004 ex 44

patrickriley@teklabinc.com

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010445
Client Project: J044517.01

Report Date: 30-Jan-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010445

Client Project: J044517.01 Report Date: 30-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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-Jan-24

Qualifiers

- # Unknown hydrocarbonC RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



Case Narrative

http://www.teklabinc.com/

Work Order: 24010445

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-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, Lead	200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24010445-001A	MHE-16	NELAP	1.0	< 1.0	μg/L	1	01/15/2024 21:09	01/04/2024 4:53
24010445-002A	MHE-17	NELAP	1.0	< 1.0	μg/L	5	01/26/2024 7:54	01/04/2024 4:53
24010445-003A	MHE-18	NELAP	1.0	2.9	μg/L	1	01/15/2024 21:13	01/04/2024 4:53
24010445-004A	MHE-19	NELAP	1.0	3.3	μg/L	1	01/15/2024 21:27	01/04/2024 4:53
24010445-005A	MHE-20	NELAP	1.2	2.7	μg/L	5	01/18/2024 6:43	01/04/2024 4:53
24010445-006A	MHE-21	NELAP	1.0	< 1.0	μg/L	1	01/15/2024 21:42	01/04/2024 4:53
24010445-007A	WMS-32	NELAP	1.0	3.9	µg/L	1	01/15/2024 21:46	01/04/2024 5:12
24010445-008A	WMS-33	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 21:49	01/04/2024 5:12
24010445-009A	WMS-34	NELAP	1.0	1.5	µg/L	1	01/15/2024 21:53	01/04/2024 5:12
24010445-010A	WMS-35	NELAP	1.0	2.9	µg/L	1	01/15/2024 21:57	01/04/2024 5:12
24010445-011A	WMS-36	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:00	01/04/2024 5:12
24010445-012A	WBE-01	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:15	01/04/2024 5:23
24010445-013A	WBE-02	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:19	01/04/2024 5:23
24010445-014A	WBE-03	NELAP	1.0	430	µg/L	5	01/26/2024 7:57	01/04/2024 5:25
24010445-015A	WBE-04	NELAP	1.0	308	µg/L	5	01/26/2024 8:01	01/04/2024 5:25
24010445-016A	WBE-05	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:30	01/04/2024 5:33
24010445-017A	WBE-06	NELAP	1.0	25.5	µg/L	5	01/26/2024 8:05	01/04/2024 5:34
24010445-018A	WBE-07	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:33	01/04/2024 5:34
24010445-019A	WBE-08	NELAP	1.0	6.5	µg/L	5	01/26/2024 8:08	01/04/2024 5:35
24010445-020A	WBE-09	NELAP	1.0	3.4	µg/L	1	01/15/2024 22:37	01/04/2024 5:35
24010445-021A	WBE-10	NELAP	1.0	1.1	µg/L	5	01/26/2024 8:12	01/04/2024 5:38
24010445-022A	WBE-11	NELAP	1.0	1.9	µg/L	1	01/26/2024 12:24	01/04/2024 5:38
24010445-023A	WBE-12	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 12:28	01/04/2024 5:40
24010445-024A	WBE-13	NELAP	1.0	3.2	µg/L	1	01/26/2024 12:32	01/04/2024 5:41
24010445-025A	WBE-14	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 12:37	01/04/2024 5:41
24010445-026A	WBE-15	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 12:41	01/04/2024 5:41
24010445-027A	WBE-16	NELAP	1.0	4.0	μg/L	1	01/26/2024 12:45	01/04/2024 5:43
24010445-028A	WBE-17	NELAP	1.0	2.8	μg/L	1	01/26/2024 12:50	01/04/2024 5:44
24010445-029A	WBE-18	NELAP	1.0	3.7	μg/L	1	01/29/2024 9:48	01/04/2024 5:44
24010445-030A	WBE-19	NELAP	1.0	2.3	μg/L	1	01/29/2024 9:52	01/04/2024 5:46
24010445-031A	WBE-20	NELAP	1.0	1.1	μg/L	1	01/26/2024 13:24	01/04/2024 5:46
24010445-032A	WBE-21	NELAP	1.0	1.6	μg/L	1	01/26/2024 13:28	01/04/2024 5:46
24010445-033A	WBE-22	NELAP	1.0	4.1	µg/L	1	01/26/2024 13:33	01/04/2024 5:48
24010445-034A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 13:37	01/04/2024 5:49
24010445-035A	WBE-24	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 13:50	01/04/2024 5:49
24010445-036A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 13:41	01/04/2024 5:49
24010445-037A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 13:46	01/04/2024 5:51
24010445-038A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:16	01/04/2024 5:51
24010445-039A		NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:03	01/04/2024 5:51
24010445-040A		NELAP	1.0	1.1	µg/L	1	01/26/2024 14:24	01/04/2024 5:53
24010445-041A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:29	01/04/2024 5:54
24010445-042A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:33	01/04/2024 5:56
24010445-043A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:46	01/04/2024 5:57
24010445-044A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:37	01/04/2024 5:58
24010445-045A		NELAP	1.0	1.2	µg/L	5	01/29/2024 11:26	01/04/2024 6:00
24010445-046A		NELAP	1.0	1.3	µg/L	5	01/26/2024 8:38	01/04/2024 6:00
24010445-047A		NELAP	1.0	1.2	µg/L	5	01/26/2024 8:41	01/04/2024 6:00
24010445-048A		NELAP	1.0	14.1	μg/L	5	01/26/2024 8:45	01/04/2024 6:00



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-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, META	LS BY ICPMS (TOTAL)									
Lead											
24010445-049 <i>A</i>	WBE-38	NELAP	1.0	2.3	μg/L	5	01/26/2024 8:49	01/04/2024 6:01			
24010445-050A	WBE-39	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:42	01/04/2024 6:04			
24010445-051A	WBE-40	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:12	01/04/2024 6:05			
24010445-052A	WBE-41	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:16	01/04/2024 6:07			
24010445-053A	WBE-42	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:21	01/04/2024 6:07			
24010445-054A	WBE-43	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:42	01/04/2024 6:08			
24010445-055A	WBE-44	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:25	01/04/2024 6:08			
24010445-056A	WBE-45	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:29	01/04/2024 6:08			
24010445-057A	WBE-46	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:33	01/04/2024 6:09			
24010445-058A	WBE-47	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:38	01/04/2024 6:09			
24010445-059A	WBE-48	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 16:08	01/04/2024 6:09			
24010445-060A	WBE-49	NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:06	01/04/2024 6:11			



Receiving Check List

http://www.teklabinc.com/

Work Order: 24010445 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 30-Jan-24 Carrier: Employee Received By: NGR Completed by: ONDON DIRALLO Reviewed by: On: On: 05-Jan-24 05-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** 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 **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square 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 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/5/2024 3:07:07 PM

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

CHAIN OF CUSTODY

pg. | of 25 Work order # 24018445

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

Client:	Geotechnolo	gy, LLC							:	San	nple	s o	n:	IC	E	■ BL	UE IC	E	NO	ICE	M	1/		C	LTG		
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City / State	/ Zip St. Louis, MC	St. Louis, MO 63146							۱ ا	Lab Notes																	
Contact:	Brad Lohrum	ohrum Phone: (314) 997-744																									
E-Mail:	blohrum@teamues.co	om	_ Fax:						C	Client Comments:																	
Are these sample:	s known to be involved	i in litigation? If yes,	a surcharge wi	ll apply	/	Ye	s V	No	1																		
Are these sample:	s known to be hazardo	ous? 🛚 Yes 🕅	No																								
Are there any requirements in the committee in the commit	uired reporting limits to nent section.	be met on the requ	ested analysis?	. If yes	s, ple	ease p	rovide																				
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481





APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

- The Report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in documenting specific sample results. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of UES.
- 2. The sampling was performed in accordance with generally accepted practices of other consultants undertaking similar projects at the same time and in the same geographical area, and UES endeavored to observe that degree of care and skill ordinarily exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the project. UES does not and cannot represent that the site contains no hazardous waste or material, or other latent condition beyond that observed by UES.
- 3. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to UES' attention. UES will evaluate such information and, based on this evaluation, may modify the conclusions stated in this Report.
- 4. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of water samples. The identified presence of contaminated water is limited to the extent that they could be identified by instrumentation and sampling and testing. There is a potential for contaminated water above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 5. If quantitative laboratory testing was performed as part of the assessment by an outside laboratory, UES has relied upon the data provided, and has not conducted an independent evaluation of the reliability to these data.
- 6. Chemical analyses have been performed for specific parameters during the course of this sampling as described in the text. Do not assume that a given analyte is not present at the site simply because it was not present at the test locations. The analyte may exist on the site where tests were not performed. In addition, it should be noted that additional chemical constituents not tested for during the sampling could be present in water at the site.