

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS WEST MIDDLE SCHOOL 401 CLINKSCALES ROAD COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

Prepared by: GEOTECHNOLOGY, LLC, DBA UES ST. LOUIS, MISSOURI

Date: December 21, 2024

Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE





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

December 21, 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 West Middle School 401 Clinkscales Road 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 West Middle School, located southwest of the intersection of West Worley Street and Clinkscales Road 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. Copies of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, are included in Appendix B. Floor plans depicting approximate sample locations are included as Figures 1 and 2.

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 detected the presence of lead at or above 5 ppb in the following samples.

Sample Number / Location and Fixture Type	Results
WMS-06 / Room 101 Sink	12.9 ppb
WMS-27 / Room 227 Sink	12.6 ppb

TABLE 1DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

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:

• It is our understanding that the outlets identified in Table 1 have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.

* * * * * *



The following attachments are included in and complete this report:

Figure 1	 Drinking Water Sample Locations – Lower Level
Figure 2	 Drinking Water Sample Locations – Upper Level
Appendix A	 Certificates and Licenses of Environmental Professionals
Appendix B	 Drinking Water Sampling Forms
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.

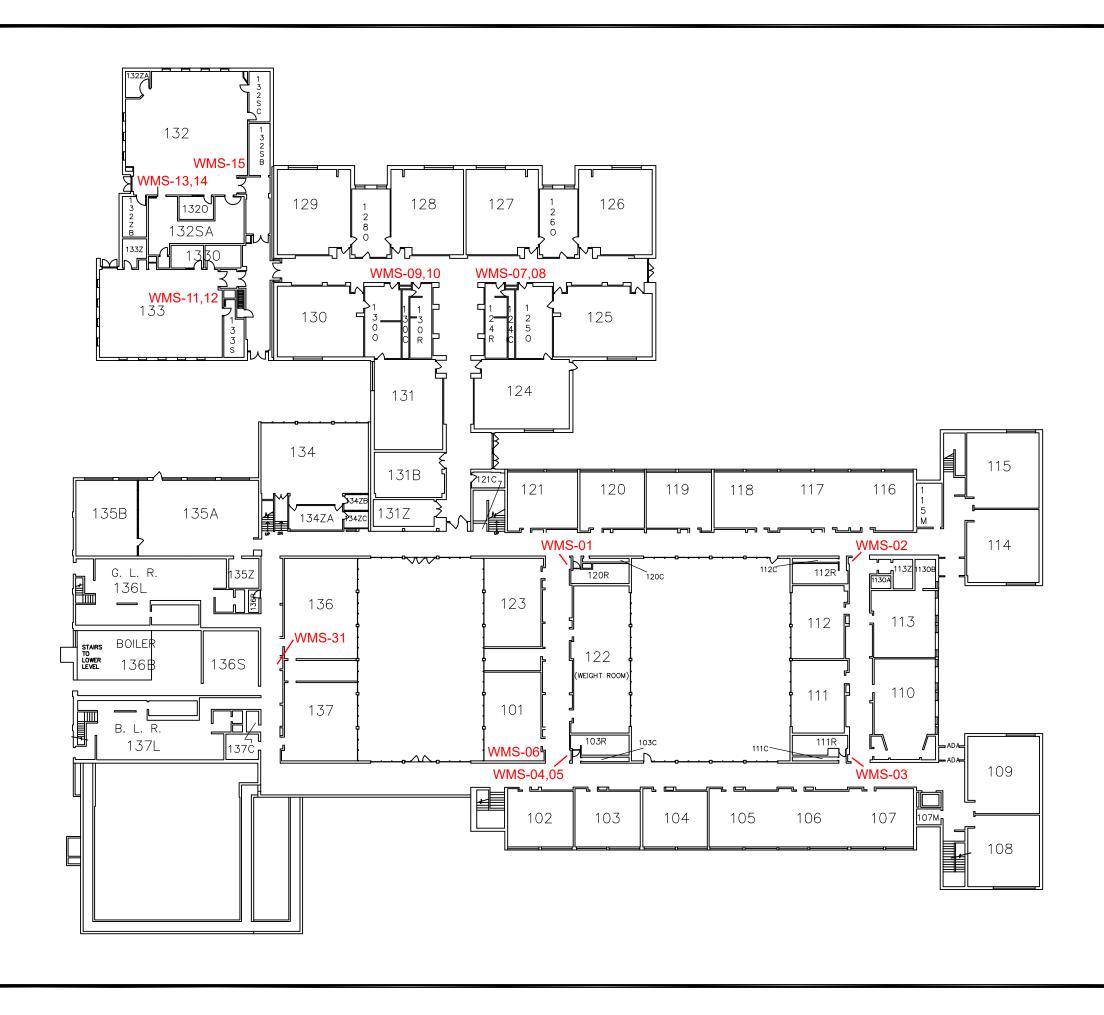
Very truly yours,

UES

Broolly Joh

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj

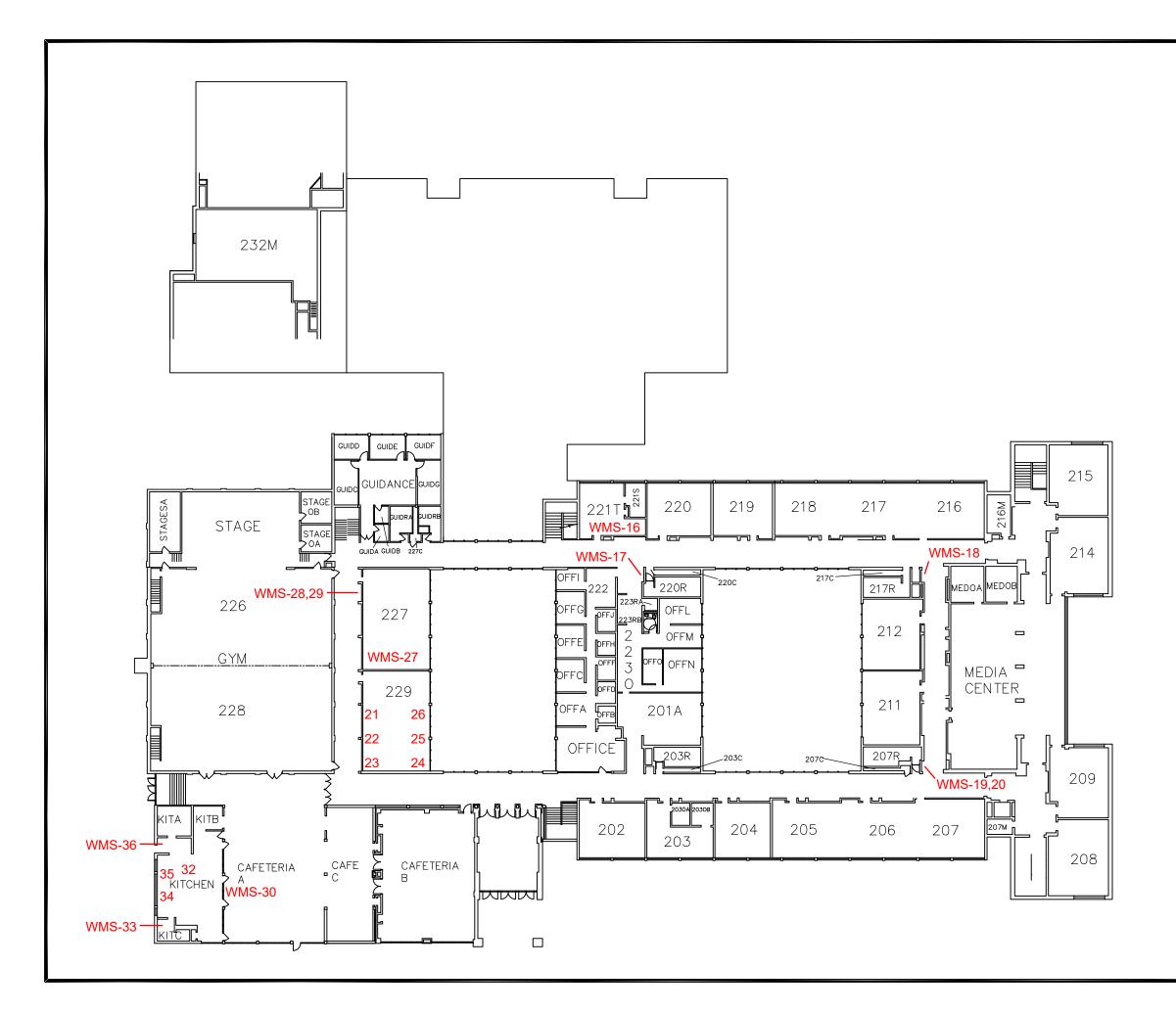




NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "West Middle School Lower Level", provided by the client, dated 07/24/2015.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: E	3JL	App'vd By: MSR								
Date: 12-21-24	Date: 12-2	21-24	Date: 12-21-24								
UES											
	Clinksc lumbia,		louu								
	_	-	AMPLE R LEVEL								
Project Num J044517.0		FI	GURE 1								





NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "West Middle School Upper Level", provided by the client, dated 07/24/2015.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: E	3JL	App'vd By: MSR								
Date: 12-21-24	Date: 12-2	21-24	Date: 12-21-24								
UES											
	Clinksc lumbia,										
DRINKING WATER SAMPLE LOCATIONS - UPPER LEVEL											
Project Num J044517.0		FI	GURE 2								



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 shuedu/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: Expiration Date: License Number: 1/20/2023 1/20/2025 230120-300006460

Daven I. Nichel

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

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



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

has attended <u>8</u> contact hours of training and successfully passed examination for

Lead Risk Assessor Refresher

St. Louis, MO

118035

Certificate # CEET 325 3/6/2023 Bramination Date: 3/6/2023 CEUs: 0.8

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: 3/28 Expiration Date: 3/30 License Number: 150

3/28/2023 3/30/2025 150330-300004672

1. r Javes

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

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

has attended

8 contact hours of training and successfully passed an examination

Lead Inspector Refresher

St. Louis, MO

Certificate # CEET 315 - 1/4/2022 - 118633 Examination Date: 1/4/2022 CEUs: 0.8

Kine 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 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:

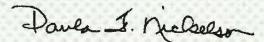
Seth P. Lamble

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: Expiration Date: License Number:

4/25/2022 4/25/2024 160425-300004897



Paula F. Nickelson Acting Director 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: Expiration Date: License Number: 2/8/2022 2/8/2024 060208-0095



Donal A. Rauna

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 FORMS



Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: West Middle School

Project Number: J044517.01

Address: 401 Clinkscales Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
WMS-01	WF	Hallway at Room 123	RJH - 12/21/23 - 15:48	RJH - 12/22/23 - 2:06
WMS-02	WF	Hallway at Room 112	RJH - 12/21/23 - 15:51	RJH - 12/22/23 - 2:07
WMS-03	WF	Hallway at Room 111	RJH - 12/21/23 - 15:53	RJH - 12/22/23 - 2:08
WMS-04	BF	Hallway at Room 101	RJH - 12/21/23 - 15:55	RJH - 12/22/23 - 2:09
WMS-05	WF	Hallway at Room 101	RJH - 12/21/23 - 15:55	RJH - 12/22/23 - 2:09
WMS-06	S	Room 101	RJH - 12/21/23 - 15:57	RJH - 12/22/23 - 2:11
WMS-07	WF	Hallway at Room 125 - Left	RJH - 12/21/23 - 16:00	RJH - 12/22/23 - 2:13
WMS-08	WF	Hallway at Room 125 - Right	RJH - 12/21/23 - 16:00	RJH - 12/22/23 - 2:13
WMS-09	WF	Hallway at Room 130 - Left	RJH - 12/21/23 - 16:01	RJH - 12/22/23 - 2:15
WMS-10	WF	Hallway at Room 130 - Right	RJH - 12/21/23 - 16:01	RJH - 12/22/23 - 2:15
WMS-11	BF	Room 133	RJH - 12/21/23 - 16:06	RJH - 12/22/23 - 2:17
WMS-12	WF	Room 133	RJH - 12/21/23 - 16:06	RJH - 12/22/23 - 2:17
WMS-13	BF	Room 132	RJH - 12/21/23 - 16:09	RJH - 12/22/23 - 2:18
WMS-14	WF	Room 132	RJH - 12/21/23 - 16:09	RJH - 12/22/23 - 2:18
WMS-15	S	Room 132	RJH - 12/21/23 - 16:10	RJH - 12/22/23 - 2:20
WMS-16	S	Room 221	RJH - 12/21/23 - 16:14	RJH - 12/22/23 - 2:22
WMS-17	BF	Hallway at Room 222	RJH - 12/21/23 - 16:15	RJH - 12/22/23 - 2:23
WMS-18	WF	Hallway at Room 212	RJH - 12/21/23 - 16:17	RJH - 12/22/23 - 2:25
WMS-19	BF	Hallway at Room 211	RJH - 12/21/23 - 16:18	RJH - 12/22/23 - 2:26
WMS-20	WF	Hallway at Room 211	RJH - 12/21/23 - 16:18	RJH - 12/22/23 - 2:26
WMS-21	S	Room 229-1	RJH - 12/21/23 - 16:23	RJH - 12/22/23 - 2:30
WMS-22	S	Room 229-2	RJH - 12/21/23 - 16:23	RJH - 12/22/23 - 2:30
WMS-23	S	Room 229-3	RJH - 12/21/23 - 16:23	RJH - 12/22/23 - 2:30
WMS-24	S	Room 229-4	RJH - 12/21/23 - 16:23	RJH - 12/22/23 - 2:30
WMS-25	S	Room 229-5	RJH - 12/21/23 - 16:23	RJH - 12/22/23 - 2:30

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: West Middle School

Project Number: J044517.01

Address: 401 Clinkscales Road Columbia, Missouri

Fixture Type Flushed By - Date - Time Sample ID Location Sampled By - Date - Time Room 229-6 **WMS-26** S RJH - 12/21/23 - 16:23 RJH - 12/22/23 - 2:30 **WMS-27** Room 227 RJH - 12/21/23 - 16:24 RJH - 12/22/23 - 2:34 S Hallway at Room 227 - Left RJH - 12/21/23 - 16:26 RJH - 12/22/23 - 2:35 **WMS-28** WF Hallway at Room 227 - Right RJH - 12/21/23 - 16:26 RJH - 12/22/23 - 2:35 **WMS-29** WF **WMS-30** WF Cafeteria RJH - 12/21/23 - 16:29 RJH - 12/22/23 - 2:39 **WMS-31** WF Hallway at Room 136 RJH - 12/21/23 - 16:30 RJH - 12/22/23 - 2:43 SPL - 1/3/24 - 18:45 SPL - 1/4/24 - 5:12 **WMS-32** S Kitchen - Food Prep **WMS-33** S Kitchen - Dish Wash - Left SPL - 1/3/24 - 18:45 SPL - 1/4/24 - 5:12 **WMS-34** S Kitchen - Dish Wash - Center SPL - 1/3/24 - 18:45 SPL - 1/4/24 - 5:12 S **WMS-35** Kitchen - Dish Wash - Right SPL - 1/3/24 - 18:45 SPL - 1/4/24 - 5:12 **WMS-36** ICE Kitchen SPL - 1/3/24 - 18:50 BJL - 1/4/24 - 5:12

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine S=Classroom/Other Sink WF=Water Fountain



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



http://www.teklabinc.com/

January 09, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146 TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01



WorkOrder: 23121857

Dear Brad Lohrum:

TEKLAB, INC received 35 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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 23121857 Report Date: 09-Jan-24

This reporting package includes the following:

Cover Letter	1
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Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 23121857

Report Date: 09-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.

Client Project: J044517.01

Work Order: 23121857

Report Date: 09-Jan-24

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/

Work Order: 23121857 Report Date: 09-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

Collinsville		Springfield	Kansas City					
5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road				
Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214				
(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998				
(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998				
jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com				
Collinsville Air		Chicago						
5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.						
Collinsville, IL 62234-7425		Downers Grove, IL 60515						
(618) 344-1004	Phone	(630) 324-6855						
(618) 344-1005	Fax							
EHurley@teklabinc.com	Email	arenner@teklabinc.com						
	5445 Horseshoe Lake Road Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005 jhriley@teklabinc.com Collinsville Air 5445 Horseshoe Lake Road Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005	5445 Horseshoe Lake Road Address Collinsville, IL 62234-7425 Phone (618) 344-1004 Phone (618) 344-1005 Fax jhriley@teklabinc.com Email Collinsville Air	5445 Horseshoe Lake Road Address 3920 Pintail Dr Collinsville, IL 62234-7425 Springfield, IL 62711-9415 (618) 344-1004 Phone (217) 698-1004 (618) 344-1005 Fax (217) 698-1005 jhriley@teklabinc.com Email KKlostermann@teklabinc.com Collinsville Air Chicago 5445 Horseshoe Lake Road Address 1319 Butterfield Rd. Collinsville, IL 62234-7425 Downers Grove, IL 60515 (618) 344-1004 Phone (630) 324-6855 (618) 344-1005 Fax Chicago	Collinsville Springfield Address 5445 Horseshoe Lake Road Address 3920 Pintail Dr Address Collinsville, IL 62234-7425 Springfield, IL 62711-9415 Address (618) 344-1004 Phone (217) 698-1004 Phone (618) 344-1005 Fax (217) 698-1005 Fax jhriley@teklabinc.com Email KKlostermann@teklabinc.com Email Collinsville Air Chicago Email S19 Butterfield Rd. Collinsville, IL 62234-7425 Downers Grove, IL 60515 Fax (618) 344-1004 Phone (630) 324-6855 Fax				



Accreditations

http://www.teklabinc.com/

Work Order: 23121857

Report Date: 09-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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/

Work Order: 23121857

Report Date: 09-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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								
23121857-001	A RAC-23	NELAP	1.0	14.1	µg/L	1	01/05/2024 9:38	12/21/2023 8:32
23121857-002	A RAC-24	NELAP	1.0	4.6	µg/L	1	01/05/2024 10:07	12/21/2023 8:33
23121857-003	A RAC-25	NELAP	1.0	5.3	µg/L	1	01/05/2024 10:12	12/21/2023 8:33
23121857-004	A RAC-26	NELAP	1.0	2.5	µg/L	1	01/05/2024 10:16	12/21/2023 8:34
23121857-005	A WMS-01	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:20	12/22/2023 2:06
23121857-006	A WMS-02	NELAP	1.0	1.5	µg/L	1	01/05/2024 17:07	12/22/2023 2:07
23121857-007	A WMS-03	NELAP	1.0	1.9	µg/L	1	01/05/2024 10:24	12/22/2023 2:08
23121857-008	A WMS-04	NELAP	1.0	1.3	µg/L	1	01/05/2024 10:28	12/22/2023 2:09
23121857-009	A WMS-05	NELAP	1.0	1.3	µg/L	1	01/05/2024 10:33	12/22/2023 2:09
23121857-010	A WMS-06	NELAP	1.0	12.9	µg/L	1	01/05/2024 10:37	12/22/2023 2:11
23121857-011	A WMS-07	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:41	12/22/2023 2:13
23121857-012	A WMS-08	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:58	12/22/2023 2:13
23121857-013	A WMS-09	NELAP	1.0	1.2	µg/L	1	01/05/2024 11:02	12/22/2023 2:15
23121857-014	A WMS-10	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:06	12/22/2023 2:15
23121857-015	A WMS-11	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:11	12/22/2023 2:17
23121857-016	A WMS-12	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:15	12/22/2023 2:17
23121857-017	A WMS-13	NELAP	5.0	< 5.0	µg/L	10	01/05/2024 15:35	12/22/2023 2:18
23121857-018	A WMS-14	NELAP	5.0	< 5.0	µg/L	10	01/09/2024 8:37	12/22/2023 2:18
23121857-019	A WMS-15	NELAP	1.0	< 1.0	µg/L	1	01/04/2024 19:46	12/22/2023 2:20
23121857-020	A WMS-16	NELAP	1.0	1.1	µg/L	1	01/05/2024 11:19	12/22/2023 2:22
23121857-021	A WMS-17	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:23	12/22/2023 2:23
23121857-022	A WMS-18	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:27	12/22/2023 2:25
23121857-023	A WMS-19	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:32	12/22/2023 2:26
23121857-024	A WMS-20	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 10:21	12/22/2023 2:26
23121857-025	A WMS-21	NELAP	1.0	2.4	µg/L	5	01/02/2024 13:56	12/22/2023 2:30
23121857-026	A WMS-22	NELAP	1.0	4.0	µg/L	5	01/02/2024 14:00	12/22/2023 2:30
23121857-027	A WMS-23	NELAP	1.0	4.3	µg/L	5	01/02/2024 14:04	12/22/2023 2:30
23121857-028	A WMS-24	NELAP	1.0	1.2	µg/L	5	01/02/2024 14:07	12/22/2023 2:30
23121857-029	A WMS-25	NELAP	1.0	4.5	µg/L	5	01/02/2024 14:11	12/22/2023 2:30
23121857-030	A WMS-26	NELAP	2.0	4.2	µg/L	10	01/09/2024 9:03	12/22/2023 2:30
23121857-031	A WMS-27	NELAP	1.0	12.6	µg/L	1	01/03/2024 10:25	12/22/2023 2:34
23121857-032	A WMS-28	NELAP	1.0	1.3	µg/L	1	01/03/2024 10:45	12/22/2023 2:35
23121857-033	A WMS-29	NELAP	1.0	1.4	µg/L	1	01/03/2024 10:29	12/22/2023 2:35
23121857-034	A WMS-30	NELAP	1.0	4.7	µg/L	1	01/03/2024 10:33	12/22/2023 2:39
23121857-035	A WMS-31	NELAP	1.0	3.5	µg/L	1	01/03/2024 10:37	12/22/2023 2:43

Dilution required to meet internal standard recovery criteria.

Dilution required to meet internal standard recovery criteria.



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 23121857 Report Date: 09-Jan-24

Carrier: Brad Lohrum Completed by: Mary E. Kemp 26-Dec-23 Mary E Kemp		Received By: PW Reviewed by: On: 26-Dec-23	R Elled Hopkens Ellie Hopkins							
Pages to follow: Chain of custody 4	Extra pages incl	uded 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 🗔	7							
When thermal preservation is required, samples are compliar 0.1°C - 6.0°C, or when samples are received on ice the same										
Water – at least one vial per sample has zero headspace?	Yes 🗌	No	No VOA vials	\checkmark						
Water - TOX containers have zero headspace?	Yes	No	No TOX containers	\checkmark						
Water - pH acceptable upon receipt?	Yes 🗹	No	NA							
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA	\checkmark						
Any No responses n	nust be detailed	below or on the	COC.							

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 12/26/2023 9:05:48 AM

CHAIN OF CUSTODY pg. 18 of 21 Work order # 23121957

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

Client: Geotechnology, L Address: 11816 Lackland F City / State / Zip St. Louis, MO 63 Contact: Brad Lohrum E-Mail: blohrum@teamues.com Are these samples known to be involved in I Are these samples known to be hazardous? Are there any required reporting limits to be limits in the comment section. Yes	Road 146 Phone: Fax: tigation? If yes, a surcharge will ap Yes A No met on the requested analysis?. If yes No	yes, please provide	Preserved in: 🗐 Lab Notes Client Comments	S:	FOR LAB USE ONLY
Project Name/Number		M	MATRIX Special Waste Sludge Drinking Water Aqueous	DW - Lead	NALYSIS REQUESTED
Lab Use OnlySample Identification 312 353 $RAC - 23$ 002 $RAC - 24$ 003 25 004 26 005 $WMS - 01$ 005 $WMS - 02$ 007 03 008 04 009 05 009 04 009 05 010 06 Relinquished By	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			E200.8	Date/Time 12/22/22/22/670

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.



pg. 19 of 21 Work order # 23121857

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

Client:	Geotechnolo	ogy, LLC			·						Sar	nple	s o	n:		ICE	🏼 B	LUE K	CE [] NO	ICE	_		0	°C	LTG	#		
Address:	11816 Lackl	and Road									Pre	sen	red	in:		LAB	🏽 F	IELD			F	ORL	AB	USE	ONI	<u>_Y</u>			
City / State	/ Zip St. Louis, M	0 63146									Lat) No	tes																
Contact:	Brad Lohrum		Phone	Phone: (314) 997-7440																									
E-Mail:	E-Mail: blohrum@teamues.com Fax:							Client Comments:																					
Are these samples	re these samples known to be involved in litigation? If yes, a surcharge will apply 🛛 Yes 🛛 🕅						C NO	_						-															
	s known to be hazard				PP')			y																					
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pg. 20 of 2 Work order # <u>73121857</u>

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

Client:		Geotechnology, Ll	LC								S	Sam	ples	on		ICE	800] BLU	E ICE	瀫	NO IC	E			_ °(0	LTG	¥		
Address:		11816 Lackland R	oad								P	res	erve	ed in	: 🗐	LAE	B 🦉	FIEL	D			<u>FC</u>	DRL	AB L	JSE	ONL	<u>.Y</u>			
City / State	/ Zip	St. Louis, MO 63	146								L	.ab	Note	es																
Contact:	Brad L	ohrum		Phone	: :	(314) 997	-7440																						
E-Mail:	blohrur	n@teamues.com	····· //	Fax:							С	lien	t Co	mm	ent	s:														
Are these sample	s known	to be involved in lit	igation? If yes,	a surcharge	will ap	ply		Yes	×	No	1																			
Are these sample	s known	to be hazardous?	🗌 Yes 🖌	No			_				1																			
Are there any requirements in the comm	uired rep nent sec	oorting limits to be n tion. 🗌 Yes 🗶	net on the reque	sted analysi	is?. If	yes, p	leas	e prov	lde																					
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pg. 2 of 21 Work order # 23121851

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

Client:		Geotechnology, l	.LC										\$	San	npl	es d	on:	*	ICE] BLU	IE ICE		NO I	CE	_		C	°c	LTG	₩		
Address:		11816 Lackland F	Road										F	Pre	ser	vec	lin		LAB	靉	FIE	D			<u>F</u>	<u>or i</u>	_AB	USE	E ON	LY			-
City / State	/ Zip	St. Louis, MO 63	3146										L	_ab	No	otes	;																
Contact:	Brad Lo	hrum		F	Phone	:	(3	14) 9	97-7	7440																							
E-Mail:	blohrun	@teamues.com		F	Fax:		_						c	lier	nt C	con	nme	ents	5:														
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http://www.teklabinc.com/

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24010445 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
Accreditations Laboratory Results Receiving Check List	6 7 9



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24010445

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.

Client Project: J044517.01

Work Order: 24010445

Report Date: 30-Jan-24

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/

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		



Client: Geotechnology, Inc.

Accreditations

http://www.teklabinc.com/

Work Order: 24010445 Report Date: 30-Jan-24

Client Project: J044517.01

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/

Work Order: 24010445

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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





Laboratory Results

http://www.teklabinc.com/

Work Order: 24010445

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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	A WBE-38	NELAP	1.0	2.3	µg/L	5	01/26/2024 8:49	01/04/2024 6:01
24010445-050	A WBE-39	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 14:42	01/04/2024 6:04
24010445-051	A WBE-40	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:12	01/04/2024 6:05
24010445-052	A WBE-41	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:16	01/04/2024 6:07
24010445-053	BA WBE-42	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:21	01/04/2024 6:07
24010445-054	A WBE-43	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:42	01/04/2024 6:08
24010445-055	A WBE-44	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:25	01/04/2024 6:08
24010445-056	A WBE-45	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:29	01/04/2024 6:08
24010445-057	A WBE-46	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:33	01/04/2024 6:09
24010445-058	BA WBE-47	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 15:38	01/04/2024 6:09
24010445-059	A WBE-48	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 16:08	01/04/2024 6:09
24010445-060	A 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/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24010445 Report Date: 30-Jan-24

Carrier: Employee	Re	ceived By: NGR	t i i i i i i i i i i i i i i i i i i i	
On: 05-Jan-24 Other Dilallo		eviewed by: On: -Jan-24 I	Elled Hopke	ns
Pages to follow: Chain of custody 6	Extra pages incluc	led 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C N/A
Type of thermal preservation?	None 🗹		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 complia. 0.1° C - 6.0° C, or when samples are received on ice the same	,	ire between		
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 r	nust be detailed b	elow or on the	coc.	

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

pg. 1 of 25 Work order # 24018445

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

Are these samples Are there any requirements limits in the comm	Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? uired reporting limits to be n eent section. Yes	oad 146 igation? If yes, Yes Yes No	No ested analys	will app is?. If y	es, ple] Ye	es 🖌	F	res .ab lien	erv Not t Co	ed in es omm	า:	LAB	₩ B	ELD		RLA		 ONL		E	-	
JC 44 Result	Name/Number 5 [7 . 0] s Requested 1-2 Day (100% Surcharge) 3 Day (50% Surcharge) Sample Identification		ructions	hn	ノへ d Typ	∧ e of C	ontain MeOH	Aqueous	Drink	T	X Special Waste	Groundwater	DW - Lead E200.8										
24010445 072 073 075 075 075 075 079 070 Fridl	MHE-16 MHE-17 MHE-18 MHE-19 MHE-20 MHE-21 WMS-32 WMS-32 WMS-33 WMS-34 WMS-35 Relinguished By	V4/24	4:53 5:12 4:53		e/Tin	ne > : (\mathbf{X}						ed By	ed		11/5	1/2.	te/Tir	ne (7:	······································		

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



S,

pg. 2 of 25 Work order # 2400 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Project Name/Number Sample Collector's Name MATRIX INDICATE ANALYSIS REQUESTED J044511.01 Brad Jawa Drinking Billing Instructions # and Type of Containers Orinking Sindiard Drinking Sindiard Drinking Sindiard Drinking Sindiard Billing Instructions # and Type of Containers Active of Sindiard Sindiard </th <th></th>	
Results Requested Billing Instructions # and Type of containers So the containers	
Results Requested Billing Instructions # and Type of containers G </th <th></th>	
Call Ope Only Sample Identification Date finite Gamples 24010445 WMS-36 14/245121 X	
ON WBE-GI 5:23 (X X OB OZ 5:23 (X X OB OZ 5:25 (X X	
OB OZ Siz3 (X X I OH OB Siz5 (X X I	
04 03 5:25 1 X X I I	
015 04 5:25 1 X X	
CIG 05 5:33 X X	
0D 06 5;34 X X	
017 5:34 X X	
019 08 5:35 X X	
Relinguished By Date/Time Received By Date/Time	

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 3 pg. 25 of Work order # $\frac{24010445}{24013447}$

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

Client:	Geotechnology, L	LC														BLUE		NO I				_ °C		TG#		
Address:	11816 Lackland F									Pr	esei	vec	l in		LAB	🕅 FIELD			<u>F(</u>	OR L	<u>ab u</u>	<u>SE C</u>	DNLY			
City / State	/ Zip St. Louis, MO 63	146								La	ЬN	otes	5													
Contact:	Brad Lohrum		Phone	:	(314)) 997-	7440																			
E-Mail:	blohrum@teamues.com		Fax:						_	Clie	ent (Con	nme	ents	;:											
Are these sample: Are there any requ	s known to be involved in li s known to be hazardous? uired reporting limits to be	Yes X met on the reque	No					ر X ide	No																	
	nent section. Yes X		mple Col	lecto	or's l	Nam	е		┯┸		MA	TRI	x				INDIC	ATE	ANA		s re	QUE	STEC)		
	517.01		dld							Un	2		S	G	DW -									Τ		
Result	s Requested	Billing Inst			nd Ty	pe of	Cont	ainer	s Ag	nkir		Slu)ecia	rour	- Lead											
] 1-2 Day (100% Surcharge)			UNP	HNOS	H2S	HCL	NaHSO4	Aqueous		Soil	Sludge	Special Waste	Groundwater	ad E2											
Lab Use Only	Sample Identification	Date/Time	Sampled	RES	μ	4		04	ER	iter			ste	er	E200,8											
2401825	WBE-10	1/4/24	5:38	1					<u> </u>	<					X											
012	Manual Andrew State		5:38	1					\$						\times											
023	[7.		5:40	(3						X											
024	13		5:41						X						\times											
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516	15			ł					X	2					X											
027	16		5:43	1					×	<					X											
028	1-1		5:44						X						X											
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			1																_							

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.



ontact:	Brad Lohrum	Road 146	hone:		(314)	997-7	440			Pi	res		d in		CE 🏼 BL AB 🖾 FIE	UEICE 📓 NO Eld	LAB US		LTG#	
e these samples e these samples e there any requ	blohrum@teamues.com known to be involved in lift known to be hazardous? kired reporting limits to be r ent section.	tigation? If yes, a surc Yes X-No met on the requested a] Y ease		•	No	Cli	ient	t Cor	nm	ents	:					
Project	Name/Number	Sample	e Colle	ecto	r's N	ame	2			<u> </u>	M	ATR	IX			INDICATE	SIS REQ	UESTE	D	
1	5 17.01	Brad	b	vv	\sim					5	<u>p</u> .		g	ត្	DW					
Result	S Requested 1-2 Day (100% Surcharge)	Billing Instruct	ions	# an	d Typ	e of (Cont	aine 1	rs	Agu	nkin	Slu)ecia	oun	- Lead					
] Other	3 Day (50% Surcharge)				d Typ NaOH	H2SC	Meo	NaHS	ОТН	eous	ing Wa	dge	Special Waste	Groundwater	ad E200,					
ab Use Only	Sample Identification	Date/Time Sam	oled	re a		¥∣⁻	Ĭ	04	Ŗ	20	ter		te	ēr	00,8					
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032	1 2	5	46	(X					\mathbf{X}					
033	22	5	48	(K					<u>X</u>					
034	23	5:	49							$\langle $										
035	24			1						2										
036	25								2						X					
037	26	5.	51	1						\mathbf{X}					X					
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046	+ 29	- 5:	53							X					\times					
	Relinguished By	1		Def	te/Tin	~~								Ree	eived By		1	Date/Tim	ie	

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.



pg. 5 of 25 Work order $\frac{24010445}{2401044497}$

MK 1/5

CHAIN OF CUSTODY

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

Client: Geotechnology, LLC								Samples on: ICE BLUE ICE NO ICE OC LTG#																	
Address:	11816 Lackland F	F	Preserved in: LAB FIELD FOR LAB USE ONL											<u>Y</u>											
City / State	Zip St. Louis, MO 63	Lab Notes																							
Contact:	Brad Lohrum Phone: (314) 997-7440																								-
E-Mail:	blohrum@teamues.com		_ Fax:							Client Comments:															
Are these samples known to be involved in litigation? If yes, a surcharge will apply 🗌 Yes 🕵 No																									
Are these sample	es known to be hazardous?	Yes XN	- -				/ ~																		
Are there any requiring limits in the comm	uired reporting limits to be n nent section.	met on the request	ed analysis	s?. If yes	s, pleas	se provi	de																		
Project Name/Number Sample Collector's Name									MATRIX INDICATE ANALYSIS REQUESTED																
1044		Lahrvm						- 1		T		DW					Τ		T		T	T	Т		
	s Requested	Billing Instru		# and		of Cont	ainers	I ≥	Drinking Water	s	Special Waste	Groundwater													
Standard] 1-2 Day (100% Surcharge)	Dining instru					1	Aqueous	ing V	Sludge	iai	Ind	Lead												
Other	3 Day (50% Surcharge)			HNO3 UNPRES	VaOF	Heo	aHSC	snc	¥a ⊓	- ge	Nas	vate	E200.8												
Lab Use Only	Sample Identification	Date/Time S	ampled	ES G	4		¥ ∼		Ĕ F		ลี	Ÿ	Ō.8												
24010245	WBE-30	1/4/24	5.54	N				X					X												
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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.



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

Client:	Geotechnology, LLC											Samples on: I ICE BLUE ICE NO ICE °C LTG#													
Address:	11816 Lackland R	11816 Lackland Road										Preserved in: LAB FIELD FOR LAB USE ONLY													
City / State	Zip St. Louis, MO 631	St. Louis, MO 63146										Lab Notes													
Contact:	Brad Lohrum						Phone: (314) 997-7440																		
	blohrum@teamues.com		Fax:							Client Comments:															
Are these samples Are there any requ	s known to be involved in lits known to be hazardous? hired reporting limits to be n ent section.	🗌 Yes 🔀	No				Yes e prov	-	No																
Project Name/Number			Sample Collector's Name							MATRIX						INDICATE	AN.	ALYS	SIS R	EQU	EST				
1044	517.01	Bra	d Loh	vu	M	L					2		Sb	ଜ	DW - Lead										
Results	s Requested	Billing Ins		#a	nd Ty	pe o	f Con		rs i		nkin y	- Islu	ecia	oun	- Les										
$y \sim$	1-2 Day (100% Surcharge)			UNP		H2S	HCL	NaHS	отн		Soll Drinking Water	Sludge	Special Waste	Groundwater											
Lab Use Only	Sample Identification	Date/Time	Sampled	RES	Ť	04		Ŷ 4	ER		ter		ste	er	E200.8										
24010445	WBE-40	1/4/24	6:05	X						X		_			X										
052	141		6:07							X					X										
053	47		6:07	Construction of the local distribution of th						Λ					X										
054	43		6:08	U						X					X										
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056	45		4	1						X					X										
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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

pg. 6 of 25 Work order # <u>2401044</u>5





APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

- 1. 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.