

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS RUSSELL BOULEVARD ELEMENTARY SCHOOL 1800 WEST ROLLINS ROAD COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

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

Date: **SEPTEMBER 20, 2024**

Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE





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

September 20, 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 Russell Boulevard Elementary School 1800 West Rollins 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 Russell Boulevard Elementary School, located southeast of the intersection of College Park Drive and West Rollins 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 January 15 and 16, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Bob Haefner, a Missouri-licensed lead risk assessor, and Mr. Jon Tuetken, an



environmental scientist with UES. Copies of training certificates and lead licenses for Messrs. Lohrum and Haefner 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. A floor plan depicting approximate sample locations is included as Figure 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 detected the presence of lead at or above 5 ppb in the following samples.

Sample Number / Location and Fixture Type	Results
RBE-08 / Kitchen Food Prep Sink	9.9 ppb
RBE-11 / Kitchen Dishwash – Right-hand Sink	5.0 ppb

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

UES personnel returned to the site on June 25 and 26, 2024, to collect water samples from the sinks listed above (RBE-08-2 and RBE-11-2) for laboratory analysis following the completion of remediation activities. The results of the retest water sample analyses were below 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 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.

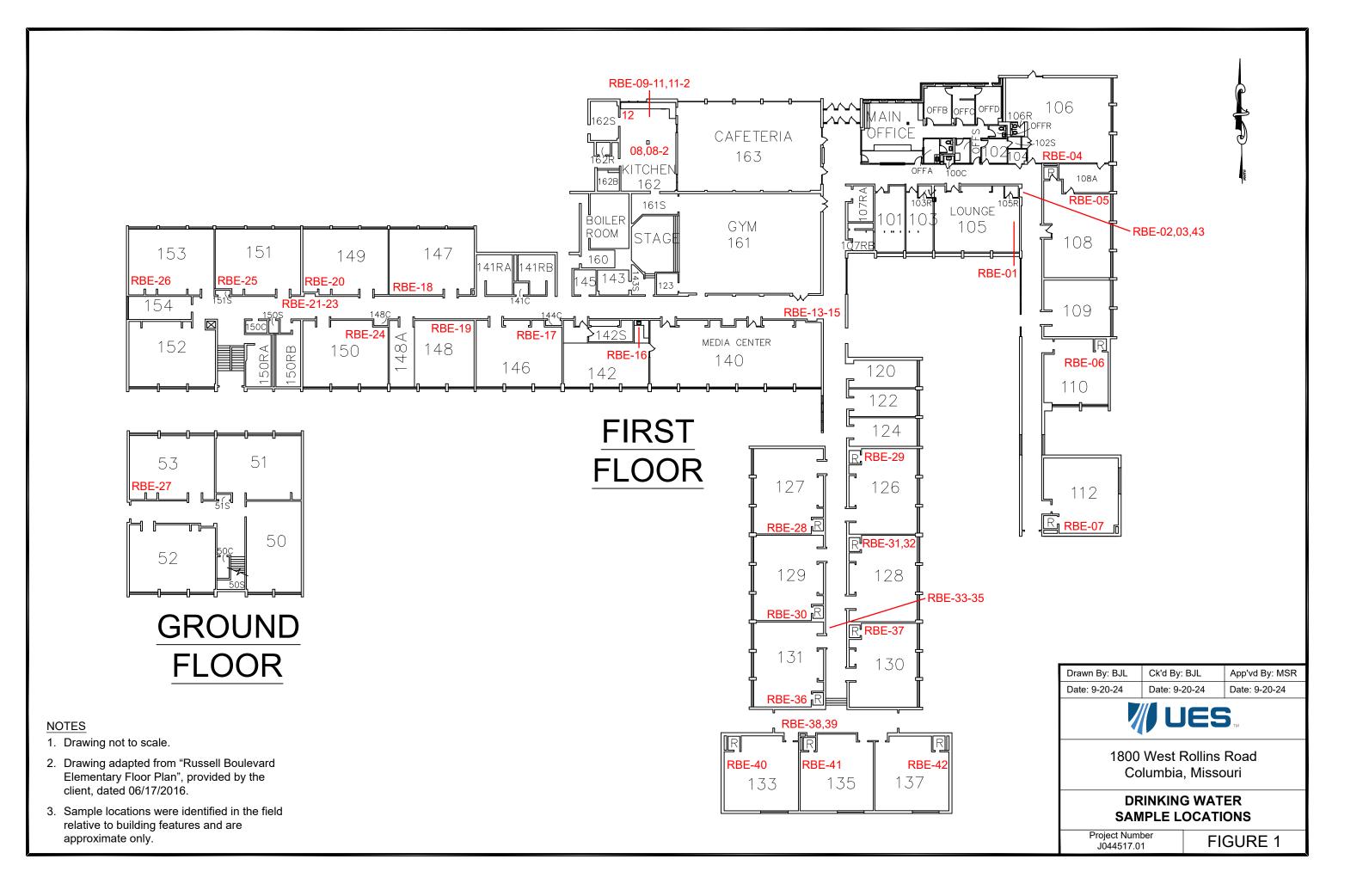
Very truly yours,

UES

Brookly Jdoh

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 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.

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.

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

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

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 (UES) 11816 Lackland Rd Suite 150

St. Louis, MO 63146

Issuance Date:2Expiration Date:2License Number:2

2/28/2024 2/28/2026 240229-4652

Daven I. Nichels

Paula F. Nickelson 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: Russell Boulevard Elementary Project Number: J044517.01

Address: 1800 West Rollins Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBE-01	S	Room 105	RJH - 1/15/24 - 16:43	RJH - 1/16/24 - 1:52
RBE-02	WF	Hallway at Room 106 - Left	JFT - 1/15/24 - 16:44	JFT - 1/16/24 - 1:55
RBE-03	WF	Hallway at Room 106 - Right	RJH - 1/15/24 - 16:44	JFT - 1/16/24 - 1:55
RBE-04	S	Room 106	RJH - 1/15/24 - 16:45	RJH - 1/16/24 - 1:57
RBE-05	S	Room 108	RJH - 1/15/24 - 16:47	JFT - 1/16/24 - 1:58
RBE-06	S	Room 110	RJH - 1/15/24 - 16:48	RJH - 1/16/24 - 1:59
RBE-07	S	Room 112	RJH - 1/15/24 - 16:50	JFT - 1/16/24 - 2:00
RBE-08	S	Kitchen Food Prep	RJH - 1/15/24 - 16:56	RJH - 1/16/24 - 2:02
RBE-09	S	Kitchen Dishwash - Left	JFT - 1/15/24 - 16:56	RJH - 1/16/24 - 2:02
RBE-10	S	Kitchen Dishwash - Center	JFT - 1/15/24 - 16:56	JFT - 1/16/24 - 2:02
RBE-11	S	Kitchen Dishwash - Right	JFT - 1/15/24 - 16:56	JFT - 1/16/24 - 2:02
RBE-12	ICE	Kitchen	RJH - 1/15/24 - 16:57	RJH - 1/16/24 - 2:03
RBE-13	BF	Hallway at Room 161B - Left	RJH - 1/1/5/24 - 16:59	JFT - 1/16/24 - 2:06
RBE-14	WF	Hallway at Room 161B - Left	RJH - 1/15/24 - 16:59	RJH - 1/16/24 - 2:06
RBE-15	WF	Hallway at Room 161B - Right	JFT - 1/15/24 - 16:59	JFT - 1/16/24 - 2:06
RBE-16	S	Room 142	RJH - 1/15/24 - 17:01	RJH - 1/16/24 - 2:07
RBE-17	S	Room 146	JFT - 1/15/24 - 17:03	JFT - 1/16/24 - 2:08
RBE-18	S	Room 147	RJH - 1/15/24 - 17:04	RJH - 1/16/24 - 2:08
RBE-19	S	Room 148	RJH - 1/15/24 - 17:05	JFT - 1/16/24 - 2:09
RBE-20	S	Room 149	JFT - 1/15/24 -17:06	RJH - 1/16/24 - 2:10
RBE-21	BF	Hallway at Room 150 - Left	RJH - 1/15/24 - 17:06	RJH - 1/16/24 - 2:11
RBE-22	WF	Hallway at Room 150 - Left	RJH - 1/15/24 - 17:06	RJH - 1/16/24 - 2:11
RBE-23	WF	Hallway at Room 150 - Right	JFT - 1/15/24 - 17:06	JFT - 1/16/24 - 2:11
RBE-24	S	Room 150	RJH - 1/15/24 - 17:07	RJH - 1/16/24 - 2:12
RBE-25	S	Room 151	RJH - 1/15/24 - 17:08	JFT - 1/16/24 - 2:12

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: Russell Boulevard Elementary Project Number: J044517.01

Address: 1800 West Rollins Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBE-26	S	Room 153	JFT - 1/15/24 - 17:11	RJH - 1/16/24 - 2:13
RBE-27	S	Room 53	RJH - 1/15/24 - 17:16	JFT - 1/16/24 - 2:14
RBE-28	S	Room 127	RJH - 1/15/24 - 17:19	RJH - 1/16/24 - 2:17
RBE-29	S	Room 126	JFT - 1/15/24 - 17:20	JFT - 1/16/24 - 2:18
RBE-30	S	Room 129	RJH - 1/15/24 - 17:21	RJH - 1/16/24 - 2:19
RBE-31	S	Room 128	JFT - 1/15/24 - 17:22	JFT - 1/16/24 - 2:20
RBE-32	В	Room 128	JFT - 1/15/24 - 17:22	JFT - 1/16/24 - 2:20
RBE-33	WF	Hallway at Room 131 - Left	RJH - 1/15/24 - 17:22	RJH - 1/16/24 - 2:21
RBE-34	BF	Hallway at Room 131 - Right	RJH - 1/15/24 - 17:22	RJH - 1/16/24 - 2:21
RBE-35	WF	Hallway at Room 131 - Right	RJH - 1/15/24 - 17:22	RJH - 1/16/24 - 2:21
RBE-36	S	Room 131	RJH - 1/15/24 - 17:23	JFT - 1/16/24 - 2:22
RBE-37	S	Room 130	JFT - 1/15/24 - 17:23	RJH - 1/16/24 - 2:22
RBE-38	BF	Hallway at Room 133	JFT - 1/15/24 - 17:24	JFT - 1/16/24 - 2:23
RBE-39	WF	Hallway at Room 133	JFT - 1/15/24 - 17:24	RJH - 1/16/24 - 2:23
RBE-40	S	Room 133	RJH - 1/15/24 -17:26	RJH - 1/16/24 - 2:24
RBE-41	S	Room 135	JFT - 1/15/24 - 17:26	JFT - 1/16/24 - 2:25
RBE-42	S	Room 137	BJL - 1/15/24 - 17:26	RJH - 1/16/24 - 2:25
RBE-43	BF	Hallway at Room 106 - Right	RJH - 1/15/24 - 16:44	JFT - 1/16/24 - 1:55
RBE-08-2	S	Kitchen Food Prep	BJL - 6/25/24 - 20:01	BJL - 6/26/24 - 4:06
RBE-11-2	S	Kitchen Dishwash - Right	BJL - 6/25/24 - 20:01	BJL - 6/26/24 - 4:07

BF=Bottle Filling B=Bubbler

S=Classroom/Other Sink WF=Water Fountain



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



http://www.teklabinc.com/

February 15, 2024

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

RE: J044517.01



WorkOrder: 24011317

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy Project Manager (618)344-1004 ex 36 SHennessy@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011317 Report Date: 15-Feb-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011317

Report Date: 15-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
- DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- 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: 24011317

Report Date: 15-Feb-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: 24011317 Report Date: 15-Feb-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/

Work Order: 24011317 Report Date: 15-Feb-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Work Order: 24011317

Report Date: 15-Feb-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 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24011317-001	A GMS-94	NELAP	1.0	34.9	µg/L	1	02/15/2024 9:48	01/16/2024 1:17
24011317-002	A GMS-95	NELAP	1.0	< 1.0	µg/L	1	02/15/2024 9:53	01/16/2024 1:17
24011317-003	A GMS-96	NELAP	1.0	12.3	µg/L	5	02/14/2024 8:44	01/16/2024 1:18
24011317-004		NELAP	1.0	< 1.0	µg/L	1	02/15/2024 9:58	01/16/2024 1:18
24011317-005		NELAP	1.0	56.9	µg/L	1	02/15/2024 10:45	01/16/2024 1:19
24011317-006	A GMS-99	NELAP	1.0	38.4	µg/L	1	02/15/2024 10:03	01/16/2024 1:19
24011317-007	A GMS-100	NELAP	1.0	17.8	µg/L	1	02/15/2024 10:50	01/16/2024 1:20
24011317-008	A GMS-101	NELAP	1.0	< 1.0	µg/L	1	02/15/2024 10:55	01/16/2024 1:20
24011317-009		NELAP	1.0	57.8	µg/L	5	02/13/2024 9:55	01/16/2024 1:22
24011317-010		NELAP	1.0	84.7	µg/L	5	02/13/2024 9:34	01/16/2024 1:22
24011317-011		NELAP	1.0	17.6	µg/L	5	02/13/2024 9:38	01/16/2024 1:22
24011317-012		NELAP	1.0	< 1.0	µg/L	1	02/15/2024 11:01	01/16/2024 1:20
24011317-013		NELAP	1.0	< 1.0	µg/L	1	02/15/2024 11:06	01/16/2024 1:20
24011317-014		NELAP	1.0	< 1.0	µg/L	1	02/15/2024 11:11	01/16/2024 1:20
24011317-015		NELAP	1.0	< 1.0	µg/L	1	02/15/2024 11:16	01/16/2024 1:20
24011317-016		NELAP	1.0	19.7	µg/L	1	02/02/2024 19:19	01/16/2024 1:20
24011317-017		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:23	01/16/2024 1:28
24011317-018		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:27	01/16/2024 1:28
24011317-019		NELAP	5.0	149	µg/L	5	02/09/2024 5:31	01/16/2024 1:28
24011317-020		NELAP	1.0	1.2	µg/∟ µg/L	5	02/13/2024 9:42	01/16/2024 1:52
24011317-021		NELAP	1.0	< 1.0	µg/∟ µg/L	5	02/13/2024 9:42	01/16/2024 1:5
24011317-022		NELAP	1.0	< 1.0 < 1.0	µg/∟ µg/L	5	02/13/2024 9:51	01/16/2024 1:5
24011317-023		NELAP	1.0	< 1.0 < 1.0	μg/L	1	02/02/2024 19:48	01/16/2024 1:5
24011317-023		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 19:45	01/16/2024 1:5
24011317-024 24011317-025		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 19:39	01/16/2024 1:5
24011317-023 24011317-026		NELAP	1.0	< 1.0		1	02/02/2024 19:39	01/16/2024 2:0
24011317-020 24011317-027		NELAP	1.0	< 1.0 9.9	µg/L	1	02/02/2024 19:43	01/16/2024 2:0
24011317-027 24011317-028		NELAP	1.0	2.3	μg/L	5	02/12/2024 16:05	01/16/2024 2:0
24011317-028 24011317-029			1.0		µg/L	5	02/12/2024 16:05	01/16/2024 2:02
24011317-029 24011317-030			1.0	2.0	µg/L	5	02/12/2024 16:09	01/16/2024 2:02
				5.0	μg/L		02/02/2024 10:13	
24011317-031 24011317-032		NELAP	1.0	< 1.0	µg/L ∪α/l	1		01/16/2024 2:03
		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:16	01/16/2024 2:0
24011317-033		NELAP	1.0	< 1.0	µg/L ∪α/l	5	02/12/2024 15:13	01/16/2024 2:00
24011317-034		NELAP	1.0	< 1.0	µg/L	5	02/12/2024 15:17	01/16/2024 2:00
24011317-035		NELAP	1.0	1.6	µg/L	1	02/02/2024 20:21	01/16/2024 2:0
24011317-036		NELAP	1.0	1.1	µg/L	1	02/02/2024 20:25	01/16/2024 2:0
24011317-037		NELAP	1.0	1.5	µg/L	1	02/02/2024 20:29	01/16/2024 2:08
24011317-038		NELAP	1.0	1.8	µg/L	1	02/02/2024 20:33	01/16/2024 2:09
24011317-039		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:37	01/16/2024 2:1
24011317-040		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:35	01/16/2024 2:1
24011317-041		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:06	01/16/2024 2:1
24011317-042		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:10	01/16/2024 2:1
24011317-043		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:14	01/16/2024 2:12
24011317-044		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:18	01/16/2024 2:1:
24011317-045		NELAP	1.0	4.3	µg/L	5	02/12/2024 15:22	01/16/2024 2:1:
24011317-046		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:22	01/16/2024 2:1
24011317-047		NELAP	1.0	1.1	µg/L	1	02/02/2024 21:27	01/16/2024 2:1
24011317-048	A RBE-29	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:31	01/16/2024 2:18



Laboratory Results

http://www.teklabinc.com/

Work Order: 24011317

Report Date: 15-Feb-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	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24011317-049	A RBE-30	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:00	01/16/2024 2:19
24011317-050	A RBE-31	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:04	01/16/2024 2:20
24011317-051	A RBE-32	NELAP	1.0	1.4	µg/L	1	02/02/2024 22:28	01/16/2024 2:20
24011317-052	A RBE-33	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:08	01/16/2024 2:21
24011317-053	A RBE-34	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:12	01/16/2024 2:21
24011317-054	A RBE-35	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:16	01/16/2024 2:21
24011317-055	A RBE-36	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:20	01/16/2024 2:22
24011317-056	A RBE-37	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:08	01/16/2024 2:22
24011317-057	A RBE-38	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:12	01/16/2024 2:23
24011317-058	A RBE-39	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:41	01/16/2024 2:23
24011317-059	A RBE-40	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:45	01/16/2024 2:24
24011317-060	A RBE-41	NELAP	1.0	1.7	µg/L	1	02/03/2024 0:49	01/16/2024 2:25



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011317 Report Date: 15-Feb-24

Carrier: Employee On: 19-Jan-24 Ortoor Olocul Amber Dilallo	Received B Reviewed On: 19-Jan-24	by: Elled Hopkens	
Pages to follow: Chain of custody 6 Shipping container/cooler in good condition? Type of thermal preservation?	None 🗹 Ic	Blue Ice Dry Ice	N/A
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Samples in proper container/bottle?	Yes 🗹 N Yes 🗹 N	lo lo lo	
Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time?	Yes V N Yes N	No	
Reported field parameters measured: Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are complia 0.1°C - 6.0°C, or when samples are received on ice the sam	nt with a temperature betw		
Water – at least one vial per sample has zero headspace?	Yes N	No UOA vials 🗹	
Water - TOX containers have zero headspace? Water - pH acceptable upon receipt?	Yes 🗹 N	No □ No TOX containers ☑ No □ NA □	
NPDES/CWA TCN interferences checked/treated in the field? Any No responses i	Yes I N	No □ NA ☑	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:33:21 AM

pg. 61 of 74 Work order # 24011317

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

Client:	lient: Geotechnology, LLC												n:		ICE	BLUE IC	E	NC	ICE				0	°C	LT	rG#		
Address:	11816 Lackland F	Road														🕅 FIELD				FOR	LA	<u>AB L</u>	JSE	0	<u>iLY</u>			ter görgör öre
City / State	/ Zip St. Louis, MO 63	146						—	L	ab	No	tes																4 A. 19 4 19
Contact:	Brad Lohrum	Phone	e: _(314)	997-	7440																						
E-Mail:	blohrum@teamues.com	Fax:	_						CI	ien	t C	om	me	nts	:											<u>generation</u>		
Are these sample	Are these samples known to be involved in litigation? If yes, a surcharge will apply 🛛 Yes 🛛 🕅																											
	s known to be hazardous?						× a .																					
Are there any req limits in the comm	nent section. Yes	met on the requested analys	is?. It ye	es, pi	lease	e prov	nae																					
Project Name/Number Sample Collector's Name											MATRIX INDICATE ANALYSIS REQUESTED																	
JO4	J044517.01 Brad Lohrum												s	6	DW						Т	Τ		Γ				
Result	s Requested	Billing Instructions	# and		be of	Con	taine	:rs	A	Drinking Water		s I	Special Waste	Groundwater														
] 1-2 Day (100% Surcharge)	5	ŞΙ	z	I.		Na	0	ueo		Soil	Sludae	al S	ndw	Lead													
Other	3 Day (50% Surcharge)		UNPRES	PH	2SO4	HCI	HSO		sn	Nat		no	/ast	atei	E200.8													
Lab Use Only	Sample Identification	Date/Time Sampled	Ň		-		4	Ĺ		₽			æ	_	œ.		ļ							-	_	_		_
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BottleOrder: 80481



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

Client: Geotechnology, LLC											Ť	Sar	npl	es	on:		ICE		BLU	E ICE		NO I	CE			C	,c	LTC	Э#		Section 2	
Address:		11816 Lackland R	oad																	FIEL					<u>OR I</u>	_AB	USE	<u>: ON</u>	LY			(An and the second s
City / State	/ Zip	St. Louis, MO 63	146										Lab) No	ote	5																a a segur
Contact:	Brad Lo	hrum		Pho	ne:		(314	I) 99	7-744	0																						and a second second
E-Mail:	blohrum	i@teamues.com		Fax	:							. 1	Clier	nt (Con	nme	ent	s:							. : •							
Are these samples known to be involved in litigation? If yes, a surcharge will apply [] Yes 🕅 No																																
Are these samples			-	-			- F -J	-		-																						
Are there any requirements in the comm	uired rep	orting limits to be r	net on th	ne requested and	alysis'	?. If	yes,	plea	se pro	ovide																						
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BottleOrder: 80481

pg. 62 of 74 Work order # 2401 1317



pg. 63 of 74 Work order # 24011317

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

Client:		Geotechnology, LL	.c									\$	Sam	ple	s oi	า:	<u>8</u>	CE		BLUE	ICE	8	NO IC	E			_ ° c	;	LTG#	ŧ	
Address:		11816 Lackland Ro	oad																	FIELC					<u>DR L</u>	<u>AB l</u>	JSE	ONL	<u>Y</u>		an an that an
City / Stat	e / Zip	St. Louis, MO 631	46									l	.ab	No	tes																
Contact:		ohum		_ Phone	9:	(3	(14)	997-	744)																					
E-Mail:	blohru	m@teamues.com		Fax:								С	lien	t C	omr	ne	nts:	:													
Are these same	les know	n to be involved in liti	igation? If yes,	a surcharge	will	apply	y	Ū '	Yes	X	No																				
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BottleOrder: 80481



pg. 64 of 74 Work order # 24011317

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

Client:		Geotechnology, Li	LC											s	San	nple	es c	on:	*	ICE	龖	BLL	IE IC	E	NO	ICE	-			°C),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LTQ	₩		
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City / State	/ Zip	St. Louis, MO 63	146											L	.ab	No	otes	;																	1000
Contact:	Brad L	ohrum			_ Phone	e:	(314) 997	7-74	40																								akyruur,
E-Mail:	blohrur	n@teamues.com			_ Fax:									С	lier	nt C	on	nme	ente	5:						2 31				,					
Are these sample:	s known	to be involved in lif	igatior	1? If yes,	, a surcharge	will	app	ly	0	Ye	s	X N	lo	1																					
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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



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

Client:	Geote	echnology, LL	.c	·······				_					San	nple	es c	n:	躑	ICE		BLU	E ICE	*	NO IO	E			C	°C	LT	G#		
Address:	11816	6 Lackland Ro	bad										Pre	sen	/ed	in	\$	LAB	*	FIEL	D			F	<u>or l</u>	AB	USE	<u>: ON</u>	LY			ann Marca.
City / State	/Zip St. Lo	ouis, MO 631	46										Lab	No	tes																	
Contact:	Brad Lohrum			Phon	e:	(314)	997	-7440)																						
E-Mail:	blohrum@tea	mues.com		Fax:		_		<u>-</u>				d	lier	nt C	om	me	ents	5:				<u> </u>		÷.,								
Are these samples	s known to be i	involved in liti	gation?	If yes, a surcharg	e will	app	ly		Yes	X	No	1																				
Are these samples																																
Are there any requirements in the comm	ired reporting ent section.	limits to be m	et on th No	e requested analy	sis?.	. If ye	es, p	lease	e pro	/ide																						
	Name/Num			Sample Co	olled	ctor	's N	lam	e			┍┶	Ň	AT	RD	(-				INE		TEA	NA	LYS	IS R	EQU	JEST	ED			
	4517.01			Brad L					-			┢	Ь					DW							1	T	T	1	T	1	Τ	
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X Standard	1-2 Day (100%	Surcharge)	Dillin	y instructions		1	1		-	z		que	ing	Soil	Sludge	ia	pur	Lead									ł					
Other	3 Day (50%	Surcharge)			NPR	Ż	NaO	1250	HCL	aHS	HIC	Aqueous	Drinking Water	-	e	Special Waste	Groundwater	E200.8														
Lab Use Only	Sample Ide	entification	Dat	e/Time Sampled	ES	ω	-	4		4	2		fér			ਨਿ	ər	0,8														
240113175	RBE-	32	1/1	124 2:20	21								X					Х														
052	RBE-	33		2:21	1								X					Х														
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275		3þ		2:22	1								X					Х														
056		31		+	1								X					Х														
057		38		2:23	1								X					Х														
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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. 65 of 74 Work order # 24011317





http://www.teklabinc.com/

February 14, 2024

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

RE: J044517.01



WorkOrder: 24011318

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy Project Manager (618)344-1004 ex 36 SHennessy@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011318 Report Date: 14-Feb-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011318

Report Date: 14-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
- DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- 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: 24011318

Report Date: 14-Feb-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: 24011318 Report Date: 14-Feb-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/

Work Order: 24011318 Report Date: 14-Feb-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



http://www.teklabinc.com/

Work Order: 24011318

Report Date: 14-Feb-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 Lead	l, 200.8 R5.4, META	LS BY ICPMS (TOTAL)								
24011318-001	A RBE-42	NELAP	1.0	1.1	µg/L	1	02/05/2024 16:43	01/16/2024 2:25		
24011318-002	A RBE-43	NELAP	1.0	< 1.0	µg/L	5	02/12/2024 15:52	01/16/2024 1:55		
24011318-003	A MCE-01	NELAP	1.0	< 1.0	µg/L	1	02/05/2024 16:47	01/16/2024 2:49		
24011318-004	A MCE-02	NELAP	1.0	19.7	µg/L	1	02/05/2024 16:50	01/16/2024 2:49		
24011318-005	A MCE-03	NELAP	1.0	1.7	µg/L	1	02/05/2024 16:54	01/16/2024 2:49		
24011318-006	A MCE-04	NELAP	1.0	2.4	µg/L	1	02/05/2024 16:58	01/16/2024 2:49		
24011318-007	A MCE-05	NELAP	1.0	< 1.0	µg/L	1	02/05/2024 17:09	01/16/2024 2:49		
24011318-008	A MCE-06	NELAP	1.0	< 1.0	µg/L	1	02/05/2024 17:12	01/16/2024 2:50		
24011318-009	A MCE-07	NELAP	1.0	< 1.0	µg/L	1	02/07/2024 22:01	01/16/2024 2:52		
24011318-010	A MCE-08	NELAP	1.0	< 1.0	µg/L	1	02/07/2024 22:04	01/16/2024 2:52		
24011318-011	A MCE-09	NELAP	1.0	8.4	µg/L	1	02/07/2024 22:08	01/16/2024 2:53		
24011318-012	A MCE-10	NELAP	1.0	45.3	µg/L	1	02/07/2024 22:12	01/16/2024 2:54		
24011318-013	A MCE-11	NELAP	1.0	1.3	µg/L	5	02/12/2024 16:22	01/16/2024 2:54		
24011318-014	A MCE-12	NELAP	1.0	4.3	µg/L	1	02/07/2024 22:23	01/16/2024 2:57		
24011318-015	A MCE-13	NELAP	1.0	1.6	µg/L	5	02/12/2024 15:56	01/16/2024 2:57		
24011318-016	A MCE-14	NELAP	1.0	8.1	µg/L	1	02/07/2024 22:26	01/16/2024 2:57		
24011318-017	A MCE-15	NELAP	1.0	3.4	µg/L	1	02/02/2024 14:51	01/16/2024 2:57		
24011318-018	A MCE-16	NELAP	1.0	13.5	µg/L	1	02/02/2024 14:55	01/16/2024 2:57		
24011318-019	A MCE-17	NELAP	1.0	31.8	µg/L	1	02/02/2024 14:59	01/16/2024 2:59		
24011318-020	A MCE-18	NELAP	1.0	28.7	µg/L	1	02/02/2024 15:03	01/16/2024 2:59		
24011318-021	A MCE-19	NELAP	1.0	7.5	µg/L	1	02/02/2024 16:05	01/16/2024 2:59		
24011318-022	A MCE-20	NELAP	1.0	14.8	µg/L	1	02/02/2024 15:07	01/16/2024 2:59		
24011318-023	A MCE-21	NELAP	1.0	1.2	µg/L	1	02/02/2024 15:36	01/16/2024 2:59		
24011318-024	A MCE-22	NELAP	1.0	6.4	µg/L	1	02/02/2024 15:40	01/16/2024 3:01		
24011318-025	A MCE-23	NELAP	1.0	6.1	µg/L	1	02/02/2024 15:45	01/16/2024 3:01		
24011318-026	A MCE-24	NELAP	1.0	6.0	µg/L	1	02/02/2024 15:49	01/16/2024 3:01		
24011318-027	A MCE-25	NELAP	1.0	4.8	µg/L	1	02/02/2024 15:53	01/16/2024 3:01		
24011318-028		NELAP	1.0	3.6	µg/L	5	02/12/2024 16:01	01/16/2024 3:01		
24011318-029		NELAP	1.0	1.7	µg/L	1	02/02/2024 15:57	01/16/2024 3:03		
24011318-030		NELAP	1.0	1.6	µg/L	1	02/02/2024 16:01	01/16/2024 3:03		
24011318-031		NELAP	1.0	2.1	µg/L	1	02/02/2024 16:30	01/16/2024 3:04		
24011318-032		NELAP	1.0	1.4	µg/L	1	02/02/2024 16:59	01/16/2024 3:04		
24011318-033		NELAP	1.0	2.1	µg/L	1	02/02/2024 16:34	01/16/2024 3:05		
24011318-034		NELAP	1.0	2.0	µg/L	1	02/02/2024 16:38	01/16/2024 3:05		
24011318-035		NELAP	1.0	2.0	µg/L	1	02/02/2024 16:42	01/16/2024 3:05		
24011318-036		NELAP	1.0	2.1	µg/L	1	02/02/2024 16:46	01/16/2024 3:05		
24011318-037		NELAP	1.0	3.0	µg/L	1	02/03/2024 10:04	01/16/2024 3:06		
24011318-038		NELAP	1.0	1.1	µg/L	1	02/03/2024 10:08	01/16/2024 3:06		
24011318-039		NELAP	1.0	1.1	µg/L	1	02/03/2024 10:12	01/16/2024 3:07		
24011318-040		NELAP	1.0	< 1.0	µg/L	1	02/03/2024 10:12	01/16/2024 3:08		
24011318-041		NELAP	1.0	3.7	µg/L	1	02/03/2024 10:41	01/16/2024 3:09		
24011318-042		NELAP	1.0	3.0	µg/L	1	02/03/2024 10:49	01/16/2024 3:10		
24011318-042		NELAP	1.0	5.0		1	02/03/2024 10:49	01/16/2024 3:10		
24011318-043		NELAP	1.0	2.5	µg/L µg/L	1	02/03/2024 11:09	01/16/2024 3:12		
24011318-045		NELAP	1.0	2.9	µg/L	1	02/03/2024 10:57	01/16/2024 3:12		
24011318-046		NELAP	1.0	5.1	µg/L	1	02/03/2024 11:01	01/16/2024 3:12		
24011318-047		NELAP	1.0	1.1	µg/L	1	02/03/2024 11:05	01/16/2024 3:13		
24011318-048	A MCE-46	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 11:34	01/16/2024 3:13		





http://www.teklabinc.com/

Work Order: 24011318

Report Date: 14-Feb-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. Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24011318-049	A MCE-47	NELAP	1.0	3.7	µg/L	1	02/03/2024 11:38	01/16/2024 3:14
24011318-050	A MCE-48	NELAP	1.0	1.6	µg/L	1	02/03/2024 12:03	01/16/2024 3:14
24011318-051	A MCE-49	NELAP	1.0	2.4	µg/L	1	02/03/2024 11:42	01/16/2024 3:15
24011318-052	A MCE-50	NELAP	1.0	2.0	µg/L	1	02/03/2024 11:47	01/16/2024 3:15
24011318-053	A MCE-51	NELAP	1.0	2.5	µg/L	1	02/03/2024 11:51	01/16/2024 3:16
24011318-054	A MCE-52	NELAP	1.0	1.1	µg/L	5	02/09/2024 9:57	01/16/2024 3:16
24011318-055	A MCE-53	NELAP	1.0	3.1	µg/L	1	02/03/2024 11:55	01/16/2024 3:16
24011318-056	A MCE-54	NELAP	1.0	1.3	µg/L	1	02/03/2024 11:59	01/16/2024 3:16
24011318-057	A MCE-55	NELAP	1.0	2.6	µg/L	1	02/03/2024 12:28	01/16/2024 3:17
24011318-058	A MCE-56	NELAP	1.0	1.7	µg/L	1	02/03/2024 12:32	01/16/2024 3:17
24011318-059	A MCE-57	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 12:36	01/16/2024 3:18
24011318-060	A MCE-58	NELAP	1.0	1.2	µg/L	1	02/03/2024 12:40	01/16/2024 3:18

Page 8 of 9



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011318 Report Date: 14-Feb-24

Carrier: Employee On: 19-Jan-24 On: Amber Dilallo	Received By: 1 Reviewed by: On: 19-Jan-24		Ś
Pages to follow: Chain of custody 6	Extra pages included		
Shipping container/cooler in good condition?	Yes 🗹 No 🗌	Not Present	Temp °C N/A
Type of thermal preservation?	None 🗹 🛛 Ice	Blue Ice	Dry Ice
Chain of custody present?	Yes 🗹 No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗹 No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹 No 🗌		
Samples in proper container/bottle?	Yes 🗹 No 🗌		
Sample containers intact?	Yes 🗹 No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹 No 🗌		
All samples received within holding time?	Yes 🗹 No 🗌		
Reported field parameters measured:	Field Lab	NA 🗹	
Container/Temp Blank temperature in compliance?	Yes 🖌 No		
When thermal preservation is required, samples are complia 0.1°C - 6.0°C, or when samples are received on ice the sam			
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		
NPDES/CWA TCN interferences checked/treated in the field?	Yes 🗌 No 🗌	NA 🗹	
Any No responses i	must be detailed below or on	the COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:41:14 AM

CHAIN OF CUSTODY

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

Client:	Geotechnology, L	LC									5	San	nplo	es d	on:		ICE	Ŕ	BL	JE IO	E	X N	10 IC		1	$\sqrt{7}$	-T	°C		ſG#		
Address:	11816 Lackland F	Road		_							F	Pres	ser	vec	l in	:)X	LAB	*] FIE	LD	'	`		<u>F(</u>	OR I	_AB	USI	<u>10 E</u>	<u>1Г</u>			anna e tre t
City / State	/ Zip St. Louis, MO 63	146									l	Lab	No	tes	5	7 \																
Contact:	Brad Lohrum		_ Phone): ;	(3	14) 9	997-7	440																								
E-Mail:	blohrum@teamues.com		_ Fax:								С	lier	nt C	on	nme	ent	s:													4		
Are these sample:	s known to be involved in li	tigation? If yes,	a surcharge	will a	apply		[] Ye	es	K	No	1																					
	s known to be hazardous?			:-0	1 6				م ا م																							
Are there any requirements in the comm	uired reporting limits to be nent section. 🏾 Yes 💈	Met on the requi	ested analys	157.	n yes	, pie	ease	provi	0e																							
Project	Name/Number	S	ample Co	llec	tor's	5 Na	ame	}				N	/A	RI	x					11	NDI	CAT	TE A	NA	LYS	IS R	EQ	UES	TED)		
-	14517.01		Brad L	ohr	um							ā			s		DW										T					
Result	s Requested	Billing Ins					e of C	Cont	aine	rs	Aq	Drinking Water		ร	Special Waste	Groundwater																
Standard	1-2 Day (100% Surcharge)	2			_	_	Ŧ	2	Z	0	ueo	ng	Soil	Sludge	al V	ndv	Lead															
Other	3 Day (50% Surcharge)			NPR	HNO3			MeOH	NaHSO4		sne	Wat		Je	Vast	vate	E200.8															
Lab Use Only	Sample Identification	Date/Time	e Sampled	ŝ	Ű		4		¥	~		<u>e</u>			ò	~	0.8								ļ	_	_			_		
24011318	RBE-42	1/16/24	2:25	1								X				L	X								ļ	<u> </u>						
002	RBE- 43	ĺ	1:55	1							1	X					X								L			\perp				
003	MCE-01		2:49	1								X			L		X					_								64-47-10 00 00 00 00 00 00 00 00 00 00 00 00 0		
604	MCE-02			1								X					X															
005	03			1								X				L	X															
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		<i>q</i> :	['					-								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.

BottleOrder: 80481

pg. 66 of 74 Work order # 24011318





http://www.teklabinc.com/

July 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: 24062353

Dear Brad Lohrum:

TEKLAB, INC received 57 samples on 6/28/2024 3:50:00 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: 24062353 Report Date: 11-Jul-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.

Client Project: J044517.01

Work Order: 24062353

Report Date: 11-Jul-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/

Work Order: 24062353

Report Date: 11-Jul-24

Qualifiers

- Unknown hydrocarbon

Client: Geotechnology, Inc.

- 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: 24062353 Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °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/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-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	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24062353-001	A SMS-01-2	NELAP	1.0	4.6	µg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-002	A SMS-02-2	NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003	A SMS-58-2	NELAP	1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-004	A SMS-59-2	NELAP	1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005	A SMS-60-2	NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006	A SMS-61-2	NELAP	1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007	A SMS-62-2	NELAP	1.0	7.4	µg/L	1	07/08/2024 22:34	06/26/2024 15:1
24062353-008	A SMS-74-2	NELAP	1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009	A PKE-66-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010	A PKE-67-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011	A PKE-70-2	NELAP	1.0	2.2	µg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012	A RBE-08-2	NELAP	1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013	A RBE-11-2	NELAP	1.0	1.6	µg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014	A FES-52-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015	A BRH-82	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016	A BRH-83	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:33	06/26/2024 16:30
24062353-017	A MCE-09-2	NELAP	1.0	1.3	µg/L	1	07/08/2024 22:45	06/26/2024 16:5 ⁻
24062353-018	A MCE-87	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019	A MCE-88	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020	A RBH-30-2	NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:1
24062353-021	A RBH-103	NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:2
24062353-022	A RBH-104	NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:2
24062353-023	A RBH-105	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024	A RBH-106	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026		NELAP	1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:40
24062353-027		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:0
24062353-028		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029		NELAP	1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030		NELAP	1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031		NELAP	1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034		NELAP	1.0	2.7	µg/L	1	07/03/2024 20:12	06/26/2024 19:32
24062353-035		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-037		NELAP	1.0	1.1	µg/L	1	07/03/2024 20:41	06/26/2024 19:57
24062353-038		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:43	06/26/2024 19:57
24062353-039		NELAP	1.0	< 1.0		1	07/03/2024 20:48	06/26/2024 20:07
24062353-039		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:10
					µg/L			
24062353-041 24062353-042		NELAP NELAP	1.0 1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042 24062353-043				< 1.0	µg/L	1	07/05/2024 12:46 07/03/2024 21:25	06/26/2024 20:1 ² 06/26/2024 20:1 ²
24062353-043			1.0	< 1.0	µg/L	1	07/03/2024 21:25	
			1.0	5.6	µg/L	1		06/26/2024 20:1
24062353-045			1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047		NELAP	1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10
24062353-048	A BHS-122-2	NELAP	1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:20





http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Mati	IX. DRINKING WA	ILK						
Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL))					
24062353-049	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053	A BHS-223	NELAP	1.0	1.1	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054	A BHS-224	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055	A BHS-225	NELAP	1.0	1.3	µg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056	A BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057	A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24062353 Report Date: 11-Jul-24

Carrier: Craig McKinney Completed by: On: 28-Jun-24 Paul Schultz	F	eceived By: NR Reviewed by: On: 8-Jun-24	Elled Hopk Ellie Hopkins	ens
Pages to follow: Chain of custody 6	Extra pages inclu	ded 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C NA
Type of thermal preservation?	None 🗸			Dry Ice
Chain of custody present?	Yes 🗸			
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				
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	must be detailed l	pelow or on the	• COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - pschultz - 6/28/2024 4:49:24 PM

CHAIN OF CUSTODY pg. of 6 Work order # 24062353

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

Client:	Geotechnology, L	LC		_				San	npi	es c	on:	200	СE	BLUEICE NOICE NA	°C LTG#
Address:	11816 Lackland F					_		Pre	ser	ved	in	*	LAB	FIELD FOR LAB US	<u>E ONLY</u>
City / State	/ Zip St. Louis, MO 63	146	_	_				Lab	No	otes	;				
Contact:	Brad Lohrum	Phone	: (3	314) 99	97-744	0									
E-Mail:	biohrum@teamues.com	Fax:	_					Clier	nt C	Com	me	nts	:	TEKLAB Courier	
Are these samples	s known to be involved in li	tigation? If yes, a surcharge	will appl	у [] Yes	X	No								
	s known to be hazardous?							Ì						Courser	
Are there any required limits in the comm	ired reporting limits to be r ent section. Sector	net on the requested analys No	s?. If ye	s, plea	ase pro	ovide		c							
	Name/Number	Sample Co	lector	s Na	me			IN	١À	(RI)	<	T		INDICATE ANALYSIS REC	UESTED
J04	4517.01	Brad L	ohrum	١			ľ	Þ			s	_	R		
Result	s Requested	Billing Instructions	# and	Туре	of Co	ntaine	IS OTHER	Drinking Water Aqueous		ñ	Special Waste	Groundwater	1		
	1-2 Day (100% Surcharge)		ΞŦ	zĘ			Q	ng \	Soil	Sludge	al M	ndw	Lead		
Other	3 Day (50% Surcharge)	·····	HNO3 UNPRES	NaOH	HCL	NaHSO4	ΞĘ	Nat us		ß	last	late	E200		
Lab Use Only	Sample Identification	Date/Time Sampled	S			_ ₽		le,			œ				
24063337-101	SMS-01-2	6/26/24 307	1					<u> </u>					X		
-002	02-2	1 3:08	1					X					X		
-003	58-2	3:11	1					X					X		
054	59-2	3:12	1					X					X		
-005	60-2	3:13	1					X					X		
-004	61-2	3:14	1					X					X		
~~07	62-2	3:15	1					X					X		
-00X	- 74-2	3:18	1					X					X		
-009	PKE-66-2	3:52	1					X					X		
-010		+ 3:52	.1		Π			X					*		
<u>_</u>	Relinquished By		Date	/Time						~	_	Rea	eive	Ву	Date/Time
Endle	1 Am	6/27	124		17:	<u>3</u> 0	>				\leq			6/28/2	1 1400
	H	C/25	44	/	35	0		4	V	i	L	ι	1	Reen 6/28/	24 1550
	<u></u>														·····

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

BottleOrder: 80481



CHAIN OF CUSTODY pg. 2 of 6 Work order # 24067573

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-100	TEKLAB, INC	. 5445 Horseshoe	Lake Road - Co	ollinsville, IL 62234	- Phone: (618)	344-1004 - Fax	:: (618) 344-100!
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Client: Geotechnology, LLC									Samples on: ICE BLUE ICE NO ICE °C LTG#																				
Address:		11816 Lackland Road															🚿 F	IELD			E	ORI	AB I	USE	ONL	Y			
City / State	/ Zip St. Louis, MO 6	3146								•		o No																1	
Contact:	Phone	Phone: (314) 997-7440																											
E-Mail:	blohrum@teamues.com	Fax:							c	lie	nt C) On	me	ents	:											an a			
Are these samples known to be involved in litigation? If yes, a surcharge will apply 🗌 Yes 🕅 No																													
	s known to be hazardous																												
Are there any requirements in the comm	uired reporting limits to be nent section.	met on the reques	ted analysi	is?. If	yes,	plea	se pro	oviđe	•																				
Project Name/Number Sample Collector's Name						┯┷	MATRIX INDICATE												ANALYSIS REQUESTED										
-	4517.01		Brad Lohrum							┢─	D					DW -			T			T							
Results Requested										Þ	Drinking Water		s	Special Waste	For	N - L													
X Standard] 1-2 Day (100% Surcharge)	Dhing inst	0010113]_		_ 2	2 0	Aqueous	ing	Soil	Sludge	ial \	۱nd	Lead													
Other	3 Day (50% Surcharge)			UNPRES		1250	HCL		OTHER	sng	Wa		ge	Nas	Groundwater	E200.8													
Lab Use Only	Sample Identification	Date/Time S	Sampled	S	ند (در) ا	Ă		т Ұ	2		ter			fe	Ϋ́	0.8													
24062353-011	PKE-70-2	6/26/24	3:55	1							Х					Х													
-012	RBE-08-	2	4:06	1							Х					Х	and the second se				N 10 M Landard								
-013	RBE-11-2		4:07	1							X					X													
-014	FES-52-2		4:16	1							Х					X													
-015	BRH-82		4:33	1							X					Х													
-3/6	RRH - 83	1	1:3b	1							X					Х													
-017	MCE -09-2	2	4:51	1							X					Х													
-3(4	MCE- 87	L	1:54	1							X					X													
-619	MCE- 88		4	1							X					X													
-020	RBH - 30-7	2	5.17	1							X					X													
Relinquished By						Date/Time							Received By									, Date/Time							
Bredle	An	bn 6/27/24						7:30															6/28/21 14a						
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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.

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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.