

### WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
BEULAH RALPH ELEMENTARY SCHOOL
5801 SOUTH HIGHWAY KK
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

**JULY 20, 2024** 

Project No.:

J044517.01



SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE



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

July 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

Beulah Ralph Elementary School

5801 South Highway KK

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 Beulah Ralph Elementary School, located northwest of the intersection of South Scott Boulevard and South Highway KK 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 31, 2024, February 1, 2024, and June 25 and 26, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Seth Lamble, a Missouri-licensed lead



inspector. Copies of training certificates and lead licenses for Messrs. Lohrum and Lamble are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. A copy of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, is included in Appendix B. A floor plan depicting approximate sample locations is included as 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 of the submitted samples did not detect the presence of lead at or above 5 ppb.

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

#### **RECOMMENDATIONS**

Our recommendations are summarized below:

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

\* \* \* \* \* \*

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

\* \* \* \* \* \*



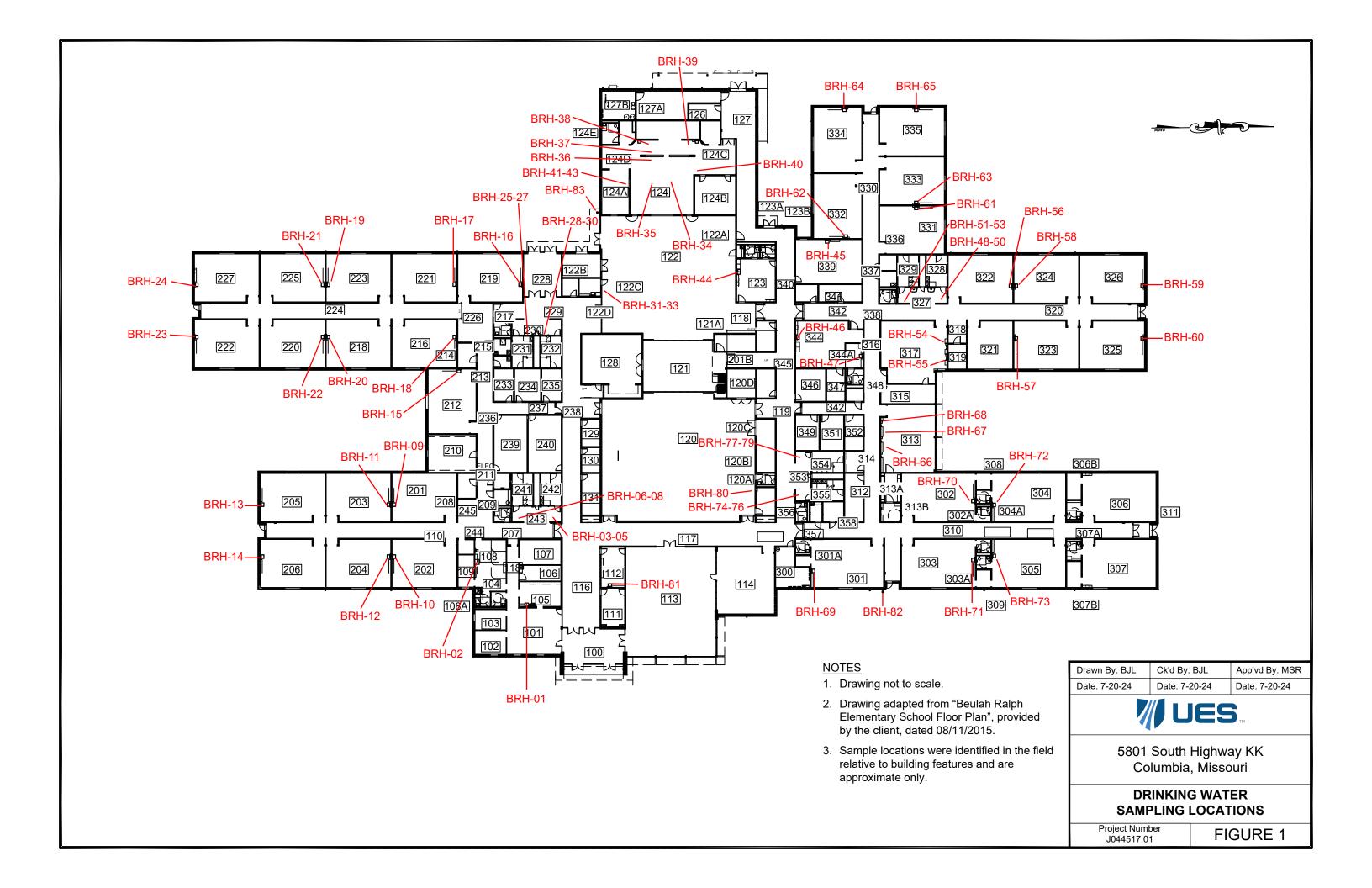
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

**UES** 

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj





#### **APPENDIX A**

**CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS** 

# PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# **Bradley Lohrum**

817 S Sappington Road, Crestwood, MO 63126

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

#### Lead Risk Assessor Refresher

St. Louis, MO

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

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

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

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104 (314) 977-8256 sh.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

# **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# Bradley J. Lohrum

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

Lead Risk Assessor
Category of License

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

License Number: 230120-300006460

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

Davea I. Nichel

# COLLEGE FOR PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

contact hours of training and successfully passed an examination has attended

### **Lead Inspector Refresher**

St. Louis, MO

Certificate #

**CEET 315** 

1/4/2022

118633

**Examination Date:** 

**CEUs: 0.8** 

1/4/2022

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

Christopher C. King PhD

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

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104 (314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

# **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# Seth P. Lamble

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

### **Lead Inspector**

Category of License

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

License Number: 160425-300004897

Paula F. Nickelson Acting Director

Daves I. Nichels

Department of Health and Senior Services

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

# **Lead Abatement Contractor License**

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

Issued to:

# Geotechnology, LLC

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

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

License Number: 060208-0095



Donald G. Kauerauf Director

Department of Health and Senior Services

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

# **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: 2/28/2024 Expiration Date: 2/28/2026

License Number: 240229-4652

Paula F. Nickelson Director

Davla J. Nichels

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: Beulah Ralph Elementary

Project Number: J044517.01

Address: 5801 South Highway KK

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BRH-01	S	Room 105	SPL - 1/31/24 - 20:32	SPL - 2/1/24 - 6:06
BRH-02	S	Room 108	SPL - 1/31/24 - 10:32	BJL - 2/1/24 - 6:06
BRH-03	BF	Room 243 North	SPL - 1/31/24 - 20:35	SPL - 2/1/24 - 6:08
BRH-04	WF	Room 243 North - Right	SPL - 1/31/24 - 20:35	SPL - 2/1/24 - 6:08
BRH-05	WF	Room 243 North - Left	SPL - 1/31/24 - 20:35	SPL - 2/1/24 - 6:08
BRH-06	BF	Room 243 South	SPL - 1/31/24 - 20:35	BJL - 2/1/24 - 6:08
BRH-07	WF	Room 243 South- Left	SPL - 1/31/24 - 20:35	BJL - 2/1/24 - 6:08
BRH-08	WF	Room 243 South - Right	SPL - 1/31/24 - 20:35	BJL - 2/1/24 - 6:08
BRH-09	S	Room 201	SPL - 1/31/24 - 20:37	SPL - 2/1/24 - 6:11
BRH-10	S	Room 202	SPL - 1/31/24 - 20:38	SPL - 2/1/24 - 6:12
BRH-11	S	Room 203	SPL - 1/31/24 - 20:39	SPL - 2/1/24 - 6:13
BRH-12	S	Room 204	SPL - 1/31/24 - 20:39	SPL - 2/1/24 - 6:14
BRH-13	S	Room 205	SPL - 1/31/24 - 20:41	SPL - 2/1/24 - 6:15
BRH-14	S	Room 206	SPL - 1/31/24 - 20:41	BJL - 2/1/24 - 6:15
BRH-15	S	Room 212	SPL - 1/31/24 - 20:43	SPL - 2/1/24 - 6:16
BRH-16	S	Room 219	SPL - 1/31/24 - 20:44	SPL - 2/1/24 - 6:17
BRH-17	S	Room 221	SPL - 1/31/24 - 20:45	SPL - 2/1/24 - 6:18
BRH-18	S	Room 216	SPL - 1/31/24 - 20:46	SPL - 2/1/24 - 6:19
BRH-19	S	Room 223	SPL - 1/31/24 - 20:47	SPL - 2/1/24 - 6:19
BRH-20	S	Room 218	SPL - 1/31/24 - 20:47	BJL - 2/1/24 - 6:20
BRH-21	S	Room 225	SPL - 1/31/24 - 20:48	SPL - 2/1/24 - 6:21
BRH-22	S	Room 220	SPL - 1/31/24 - 20:53	BJL - 2/1/24 - 6:21
BRH-23	S	Room 222	SPL - 1/31/24 - 20:54	BJL - 2/1/24 - 6:22
BRH-24	S	Room 227	SPL - 1/31/24 - 20:54	SPL - 2/1/24 - 6:22
BRH-25	BF	Room 230 South	SPL - 1/31/24 - 20:57	SPL - 2/1/24 - 6:24

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: Beulah Ralph Elementary

Project Number: J044517.01

Address: 5801 South Highway KK

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BRH-26	WF	Room 230 South - Right	SPL - 1/31/24 - 20:57	SPL - 2/1/24 - 6:24
BRH-27	WF	Room 230 South - Left	SPL - 1/31/24 - 20:57	SPL - 2/1/24 - 6:24
BRH-28	BF	Room 230 North	SPL - 1/31/24 - 20:58	BJL - 2/1/24 - 6:25
BRH-29	WF	Room 230 North - Left	SPL - 1/31/24 - 20:58	BJL - 2/1/14 - 6:25
BRH-30	WF	Room 230 North - Right	SPL - 1/31/24 - 20:58	SPL - 2/1/24 - 6:25
BRH-31	BF	Cafeteria	SPL - 1/31/24 - 21:00	SPL - 2/1/24 - 6:26
BRH-32	WF	Cafeteria - Left	SPL - 1/31/24 - 21:00	SPL - 2/1/24 - 6:26
BRH-33	WF	Cafeteria - Right	SPL - 1/31/24 - 21:00	SPL - 2/1/24 - 6:26
BRH-34	S	Kitchen Steam Table North	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:28
BRH-35	S	Kitchen Steam Table South	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:28
BRH-36	S	Kichen Food Prep South	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:29
BRH-37	S	Kitchen Food Prep East	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:29
BRH-38	S	Kitchen Food Prep West	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:29
BRH-39	S	Kitchen Food Prep North	SPL - 1/31/24 - 21:04	SPL - 2/1/24 - 6:29
BRH-40	ICE	Kitchen	SPL - 1/31/24 - 21:05	SPL - 2/1/24 - 6:30
BRH-41	S	Kitchen Dishwash - Left	SPL - 1/31/24 - 21:06	BJL - 2/1/24 - 6:31
BRH-42	S	Kitchen Dishwash - Center	SPL - 1/31/24 - 21:06	BJL - 2/1/24 - 6:31
BRH-43	S	Kitchen Dishwash - Right	SPL - 1/31/24 - 21:06	BJL - 2/1/24 - 6:31
BRH-44	S	Room 123	SPL - 1/31/24 - 21:09	SPL - 2/1/24 - 6:33
BRH-45	S	Room 339	SPL - 1/31/24 - 21:10	SPL - 2/1/24 - 6:38
BRH-46	S	Room 344 South	SPL - 1/31/24 - 21:12	SPL - 2/1/24 - 6:40
BRH-47	S	Room 344 North	SPL - 1/31/24 - 21:12	BJL - 2/1/24 - 6:40
BRH-48	BF	Room 327 North	SPL - 1/31/24 - 21:14	SPL - 2/1/24 - 6:42
BRH-49	WF	Room 327 North - Right	SPL - 1/31/24 - 21:14	SPL - 2/1/24 - 6:42
BRH-50	WF	Room 327 North - Left	SPL - 1/31/24 - 21:14	SPL - 2/1/24 - 6:42

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: Beulah Ralph Elementary

Project Number: J044517.01

Address: 5801 South Highway KK

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BRH-51	BF	Room 327 South	SPL - 1/31/24 - 21:15	BJL - 2/1/24 - 6:42
BRH-52	WF	Room 327 South - Left	SPL - 1/31/24 - 21:15	BJL - 2/1/24 - 6:42
BRH-53	WF	Room 327 South - Right	SPL - 1/31/24 - 21:15	BJL - 2/1/24 - 6:42
BRH-54	S	Room 317 - Left	SPL - 1/31/24 - 21:17	SPL - 2/1/24 - 6:44
BRH-55	S	Room 317 - Right	SPL - 1/31/24 - 21:17	SPL - 2/1/24 - 6:44
BRH-56	S	Room 322	SPL - 1/31/24 - 21:18	SPL - 2/1/24 - 6:45
BRH-57	S	Room 323	SPL - 1/31/24 - 21:19	SPL - 2/1/24 - 6:46
BRH-58	S	Room 324	SPL - 1/31/24 - 21:20	SPL - 2/1/24 - 6:47
BRH-59	S	Room 325	BJL - 1/31/24 - 21:21	SPL - 2/1/24 - 6:48
BRH-60	S	Room 326	BJL - 1/31/24 - 21:21	BJL - 2/1/24 - 6:48
BRH-61	S	Room 331	SPL - 1/31/24 - 21:23	SPL - 2/1/24 - 6:50
BRH-62	S	Room 332	SPL - 1/31/24 - 21:24	SPL - 2/1/24 - 6:51
BRH-63	S	Room 333	BJL - 1/31/24 - 21:24	SPL - 2/1/24 - 6:52
BRH-64	S	Room 334	SPL - 1/31/24 - 21:25	BJL - 2/1/24 - 6:52
BRH-65	S	Room 335	SPL - 1/31/24 - 21:26	SPL - 2/1/24 - 6:53
BRH-66	S	Room 313 - Left	SPL - 1/31/24 - 21:28	SPL - 2/1/24 - 6:54
BRH-67	S	Room 313 - Center	SPL - 1/31/24 - 21:28	SPL - 2/1/24 - 6:54
BRH-68	S	Room 313 - Right	SPL - 1/31/24 - 21:28	BJL - 2/1/24 - 6:54
BRH-69	S	Room 301	SPL - 1/31/24 - 21:29	SPL - 2/1/24 - 6:56
BRH-70	S	Room 302	BJL - 1/31/24 - 21:30	BJL - 2/1/24 - 6:57
BRH-71	S	Room 303	BJL - 1/31/24 - 21:31	SPL - 2/1/24 - 6:57
BRH-72	S	Room 304	BJL - 1/31/24 - 21:32	BJL - 2/1/24 - 6:59
BRH-73	S	Room 305	BJL - 1/31/24 - 21:32	SPL - 2/1/24 - 6:59
BRH-74	BF	Room 353 East	SPL - 1/31/24 - 21:35	SPL - 2/1/24 - 7:01
BRH-75	WF	Room 353 - Right	SPL - 1/31/24 - 21:35	SPL - 2/1/24 - 7:01

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: Beulah Ralph Elementary

Project Number: J044517.01

Address: 5801 South Highway KK

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BRH-76	WF	Room 353 East - Left	SPL - 1/31/24 - 21:35	SPL - 2/1/24 - 7:01
BRH-77	BF	Room 353 West	SPL - 1/31/24 - 21:36	BJL - 2/1/24 - 7:01
BRH-78	WF	Room 353 West - Left	SPL - 1/31/24 - 21:36	BJL - 2/1/24 - 7:01
BRH-79	WF	Room 353 West - Right	SPL - 1/31/24 - 21:36	BJL - 2/1/24 - 7:01
BRH-80	WF	Gym	SPL - 1/31/24 - 21:40	SPL - 2/1/24 - 7:03
BRH-81	S	Room 112	SPL - 1/31/24 - 21:42	SPL - 2/1/24 - 7:05
BRH-82	WF	Exterior East	BJL - 6/25/24 - 20:31	BJL - 6/26/24 - 4:33
BRH-83	WF	Exterior West	BJL - 6/25/24 - 20:34	BJL - 6/26/24 - 4:36



#### **APPENDIX C**

**DRINKING WATER LABORATORY DATA SHEETS** 



March 06, 2024

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

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

**RE:** J044517.01 **WorkOrder:** 24020199

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 2/2/2024 3:40:00 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,

Elizabeth A. Hurley

**Director of Customer Service** 

(618)344-1004 ex 33

ehurley@teklabinc.com

Elizabeth a Hurley

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



# **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020199

Client Project: J044517.01

Report Date: 06-Mar-24

#### This reporting package includes the following:

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Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020199

Client Project: J044517.01 Report Date: 06-Mar-24

#### Abbr Definition

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



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020199

Client Project: J044517.01 Report Date: 06-Mar-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: 24020199

Report Date: 06-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

#### Locations

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



### **Accreditations**

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

Client: Geotechnology, Inc. Work Order: 24020199

Client Project: J044517.01 Report Date: 06-Mar-24

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



# **Laboratory Results**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020199

Client Project: J044517.01 Report Date: 06-Mar-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	4, 200.8 R5.4, MET <i>A</i>	ALS BY ICPMS (TOTAL)						
<b>Lead</b> 24020199-001	A JWM-89	NELAP	1.0	1.9	μg/L	1	03/01/2024 17:01	02/01/2024 5:41
24020199-001		NELAP	1.0	1.9	μg/L	1	03/01/2024 17:01	02/01/2024 5:41
24020199-003		NELAP	1.0	2.8	µg/L	1	03/01/2024 17:26	02/01/2024 5:41
24020199-004		NELAP	1.0	6.8	µg/L	1	03/01/2024 17:30	02/01/2024 5:42
24020199-005		NELAP	1.0	2.9	µg/L	1	03/01/2024 17:34	02/01/2024 5:45
24020199-006		NELAP	1.0	2.3	µg/L	1	03/01/2024 17:37	02/01/2024 5:45
24020199-007		NELAP	1.0	2.7	μg/L	1	03/01/2024 17:41	02/01/2024 5:45
24020199-008		NELAP	1.0	3.2	μg/L	1	03/01/2024 17:45	02/01/2024 5:45
24020199-009		NELAP	1.0	2.8	μg/L	1	03/01/2024 17:48	02/01/2024 5:45
24020199-010		NELAP	1.0	1.9	μg/L	1	03/01/2024 17:52	02/01/2024 5:45
24020199-011		NELAP	1.0	2.3	μg/L	1	03/01/2024 17:56	02/01/2024 5:45
24020199-012	A JWM-100	NELAP	1.0	3.0	μg/L	1	03/01/2024 17:59	02/01/2024 5:45
24020199-013		NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:14	02/01/2024 6:06
24020199-014	A BRH-02	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:18	02/01/2024 6:06
24020199-015	A BRH-03	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:29	02/01/2024 6:08
24020199-016	A BRH-04	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:32	02/01/2024 6:08
24020199-017	A BRH-05	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:36	02/01/2024 6:08
24020199-018	A BRH-06	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 18:40	02/01/2024 6:08
24020199-019	A BRH-07	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:02	02/01/2024 6:08
24020199-020	A BRH-08	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:05	02/01/2024 6:08
24020199-021	A BRH-09	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:09	02/01/2024 6:11
24020199-022	A BRH-10	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:13	02/01/2024 6:12
24020199-023	A BRH-11	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:16	02/01/2024 6:13
24020199-024	A BRH-12	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:20	02/01/2024 6:14
24020199-025	A BRH-13	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:24	02/01/2024 6:15
24020199-026	A BRH-14	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:27	02/01/2024 6:15
24020199-027	A BRH-15	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 19:31	02/01/2024 6:16
24020199-028	A BRH-16	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:45	02/01/2024 6:17
24020199-029	A BRH-17	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:49	02/01/2024 6:18
24020199-030		NELAP	1.0	< 1.0	μg/L	1	03/04/2024 20:00	02/01/2024 6:19
24020199-031		NELAP	1.0	< 1.0	μg/L	1	03/04/2024 20:04	02/01/2024 6:19
24020199-032		NELAP	1.0	1.2	μg/L	1	03/04/2024 20:07	02/01/2024 6:20
24020199-033		NELAP	1.0	< 1.0	μg/L	1	03/04/2024 20:11	02/01/2024 6:21
24020199-034		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:09	02/01/2024 6:21
24020199-035		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:13	02/01/2024 6:22
24020199-036		NELAP	1.0	< 1.0	μg/L "	1	03/05/2024 14:24	02/01/2024 6:22
24020199-037		NELAP	1.0	< 1.0	μg/L "	1	03/05/2024 14:27	02/01/2024 6:24
24020199-038		NELAP	1.0	< 1.0	μg/L "	1	03/05/2024 14:31	02/01/2024 6:24
24020199-039		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:46	02/01/2024 6:24
24020199-040		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:49	02/01/2024 6:25
24020199-041		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:53	02/01/2024 6:25
24020199-042		NELAP	1.0	< 1.0	μg/L	1	03/05/2024 14:57	02/01/2024 6:25
24020199-043		NELAP NELAD	1.0	< 1.0	μg/L	1	03/05/2024 15:01 03/05/2024 15:04	02/01/2024 6:26
24020199-044		NELAP NELAD	1.0	< 1.0	μg/L	1		02/01/2024 6:26
24020199-045 24020199-046		NELAP NELAD	1.0	< 1.0	μg/L	1	03/05/2024 15:08 02/23/2024 19:58	02/01/2024 6:26 02/01/2024 6:28
24020199-046		NELAP NELAP	1.0	4.5	μg/L	5 1	03/05/2024 15:12	02/01/2024 6:28
24020199-047		NELAP NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:12	02/01/2024 6:28
24020199-048	M DKH-90	INCLAP	1.0	1.4	μg/L	1	03/03/2024 14.05	02/01/2024 0.29



# **Laboratory Results**

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

Client: Geotechnology, Inc. Work Order: 24020199

Client Project: J044517.01 Report Date: 06-Mar-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24020199-049	A BRH-37	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 17:48	02/01/2024 6:29
24020199-050	A BRH-38	NELAP	1.0	1.7	μg/L	1	03/04/2024 18:03	02/01/2024 6:29
24020199-051	A BRH-39	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:06	02/01/2024 6:29
24020199-052	A BRH-40	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:10	02/01/2024 6:30
24020199-053	A BRH-41	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:14	02/01/2024 6:31
24020199-054	A BRH-42	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:17	02/01/2024 6:31
24020199-055	A BRH-43	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:21	02/01/2024 6:31
24020199-056	A BRH-44	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:32	02/01/2024 6:33
24020199-057	A BRH-45	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:36	02/01/2024 6:38
24020199-058	A BRH-46	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:50	02/01/2024 6:40
24020199-059	A BRH-47	NELAP	1.0	1.1	μg/L	1	03/04/2024 18:54	02/01/2024 6:40
24020199-060	A BRH-48	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 18:58	02/01/2024 6:42



#### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24020199 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 06-Mar-24 Carrier: Craig McKinney Received By: LM Completed by: moor Oleanc Reviewed by: On: On: 05-Feb-24 06-Feb-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes **~** No **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Yes

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

No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory.

NPDES/CWA TCN interferences checked/treated in the field?

NA 🗸

pg. 32 of 40 Work order # 24020199

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

Client:	Ge	otechnology, L	LC										San	npl	es	on:	8	ICE	∭ BL	UE ICI		NO IO	Œ			°C	<del></del>	LTG#	ŧ	
Address:	118	816 Lackland R	oad											_					FII					OR L	AB l	USE (	ONL	<u>.Y</u>		
City / State	/ Zin St.	Louis, MO 63	146									•		No																
Contact:	Brad Lohru	m		Pho	ne:		(314	997	-744	10						_														
E-Mail:	blohrum@t	eamues.com		Fax:		-					·	<u> </u>	امنا	nt C	`on	2026	nto						-							
			:			ll am	.1	П	Yes	✓	No	4	, I I C I		<i>,</i> 011	11115	7 1 I C.	∍.												
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Are there any req	uired reportir	ng limits to be n	net on the		lysis?	?. If y	es, p	oleas	e pro	ovide		ı																		
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Lab Use Only	Sample	Identification	Date/	Time Sample	DI WARES OTHER NaHSO4 MeOH HCL H2SO4 NAOH HNO3 UNPRES UNPRES											te	er	E200.8												
24020199	JWW	1-99	2/1/2	24 5:4	5	1							X					X												
Or_	JWM	- 100		+		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. 35 of 40 Work order # 24020199

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

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Client:	Geotechnology	, LLC										_					■ BL			NO IC						LTG#		
Address:	11816 Lackland									F	Pre:	ser	ved	lin	• 33	LAB	■ FII	ELD			<u>FO</u>	R L	AB U	SE	<u> JNL</u>	<u>r</u>		
City / State	/ Zip St. Louis, MO	63146								L	_ab	No	tes	;														
Contact:	Brad Lohrum		_ Phone	:	(314	) 997	744	0																				
E-Mail:	blohrum@teamues.com	1	Fax:							С	lier	nt C	on	ıme	ents	<b>;:</b>												
Are these samples	s known to be involved in	litigation? If yes	, a surcharge v	vill ap	ply		Yes	X	No	1																		
Are these samples	known to be hazardous	? 🗌 Yes 🛚 🕅	No																									
Are there any requ	ired reporting limits to be ent section.	e met on the requ	uested analysis	s?. If	yes, p	olease	e pro	vide																				
	Name/Number		Sample Col	ecto	วะ'ร	Nam	ne			┸	N	IΑΊ	RI	X				IN	DIC/	TEA	NAL	YSIS	S RE	QUE	STE	D		
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	3 Day (50% Surcharge)			S :	ĘZ	돐	_ :	NaHSO4	잌	ueous	Drinking Water	Soil	Sludge	W	Groundwater	DW - Lead E200.8												
Other		<u></u>		UNPRES	NaOH HNO3	SQ4	전	Ž Š	ΞĘ	S	Vate			aste	ater	200							1					
Lab Use Only	Sample Identification	n Date/Tim	ie Sampled	۲			_				_					-	_						<u> </u>				_	
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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.

80481

pg. 34 of 40 Work order # 24020199

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

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Client:	Geotechnology, I						····				. 8		-									140 11		 			_		G# _		—
Address:	11816 Lackland					··········					. 1						LAB	28	] FIEL	ע			<u> </u>	<u>JR L</u>	.AD	USE	ON	<u>L.T</u>			
City / State		3146					207	744			.	Lab	No	otes	5																
Contact:	Brad Lohrum	<del></del>	_ Phone	e:	(3	14)	997-	/44	U		·L																				
E-Mail:	blohrum@teamues.com		Fax:								- C	lie	nt (	Con	nme	ents	s:														
Are these sample:	s known to be involved in I	itigation? If yes	, a surcharge	will	appl	У		⁄es	X	No	1																				
Are these samples	s known to be hazardous?	☐ Yes 🛚 🔻	No																												
Are there any requ	uired reporting limits to be sent section.	met on the requ	uested analys	is?.	If ye	s, pl	lease	pro	vide																						
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X Standard	1-2 Day (100% Surcharge)	-	Billing Instructions # and Type of Containers  UNPRES  Pate/Time Sampled									ng l	Soil	Sludge	a V	ndv.	Lead														
Other	3 Day (50% Surcharge)			界	S	aO	250	[ [	Z   Z	표	S	Wat		Ø	Vasi	/ate	E200.8														
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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.

80481

BottleOrder:

pg. 35 of 40 Work order # 24020199

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

																												·						
Client:	<u>G</u>	Geotechnology, LLC												Samples on: ICE BLUE ICE NO ICE CTG#																				
Address:													Preserved in: LAB FIELD FOR LAB USE ONLY																					
City / State																																		
Contact:	Contact: Brad Lohrum Phone: (314) 997-7440									<b>-</b>																								
E-Mail:	blohrum@teamues.com Fax: Client Comments:																																	
Are these sample: Are these sample: Are there any requirements in the comm	s known to uired report ent sectior	be hazardous? ting limits to be m ℩. ☐ Yes 🏾 🋣	Yes	s 🛚	No ested anal	/sis?	. If y	yes,	plea				No																					
Project Name/Number Sample Collector's					rs	s Name					-	MATRIX								IN	DIC	ATE	ANALYSIS REQUESTED											
J04	4517.0	1			Brad Lohrum										D <sub>T</sub>			St	ଦ	DW														
Results Requested			Billin	a Ins	truction	s I	# and Type of Containers							Ą	烹		<u>s</u>	)eci	rou															
X Standard	standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge)			<del>-</del>				NaOH	HZSO	된	MeOH	NaHSO4	ЭНТО	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	Lead E200														
Lab Use Only	dentification	Da	Sampled	Ü	۳ ا	, 1	4		I	4	R		ter			fe .	er	0.8												$\perp$				
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BottleOrder: 80481

pg. 36 of 40 Work order # 24020199

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

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Client:	Geotechnology, L															_														
Address:		11816 Lackland Road											ricol vod iii – – – – – – – – – – – – – – – – –																	
City / State	/ Zip St. Louis, MO 63	Louis, MO 63146									Lab Notes																			
Contact:	Brad Lohrum		_ Phone: (314) 997-7440																											
E-Mail:	Mail: blohrum@teamues.com Fax: Client Comments:																													
Are these samples	s known to be involved in list known to be hazardous? sired reporting limits to be rent section.	Yes X No met on the requested				☐ Y			0																					
Project Name/Number Sample Collector's Name							T	MATRIX INDICATE ANALYSIS REQUESTED											*****											
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Standard	1-2 Day (100% Surcharge)	Diffing misting		_ [ _		_		z	, In	ing	Soil	Sludge	ial \	Ind	Lead															
Other	3 Day (50% Surcharge)			HNO3	NaO	12SO	МеОН	NaHSO4	į į	Drinking Water	_	ge	Special Waste	Groundwater	E200.8			İ				Ì								
Lab Use Only	Sample Identification	Date/Time San	mpled	<u>س</u> ري		4		¥ 2	1	er.			ïe .	_	0.8															
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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



100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



March 06, 2024

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

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

**RE:** J044517.01 **WorkOrder:** 24020200

Dear Brad Lohrum:

TEKLAB, INC received 40 samples on 2/2/2024 3:40:00 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,

Elizabeth A. Hurley

Director of Customer Service

(618)344-1004 ex 33

ehurley@teklabinc.com

Elizabeth a Hurley



# **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020200

Client Project: J044517.01

Report Date: 06-Mar-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	8
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020200

Client Project: J044517.01 Report Date: 06-Mar-24

#### Abbr Definition

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



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020200

Client Project: J044517.01 Report Date: 06-Mar-24

#### Qualifiers

- 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)

- # 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



## **Case Narrative**

http://www.teklabinc.com/

Work Order: 24020200

Report Date: 06-Mar-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/

Client: Geotechnology, Inc. Work Order: 24020200

Client Project: J044517.01 Report Date: 06-Mar-24

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



## **Laboratory Results**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020200

Client Project: J044517.01 Report Date: 06-Mar-24

Matrix: DRINKING WATER

Sample ID C	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	·	` .						
24020200-001A	BRH-49	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:01	02/01/2024 6:42
24020200-002A	BRH-50	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:05	02/01/2024 6:42
24020200-003A	BRH-51	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:16	02/01/2024 6:42
24020200-004A	BRH-52	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:20	02/01/2024 6:42
24020200-005A	BRH-53	NELAP	1.0	< 1.0	μg/L	1	03/04/2024 19:23	02/01/2024 6:42
24020200-006A	BRH-54	NELAP	1.0	2.6	μg/L	1	03/04/2024 19:38	02/01/2024 6:44
24020200-007A	BRH-55	NELAP	1.0	2.8	μg/L	1	03/04/2024 19:42	02/01/2024 6:44
24020200-008A	BRH-56	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:15	02/01/2024 6:45
24020200-009A	BRH-57	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:19	02/01/2024 6:46
24020200-010A	BRH-58	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:34	02/01/2024 6:47
24020200-011A	BRH-59	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:37	02/01/2024 6:48
24020200-012A	BRH-60	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:41	02/01/2024 6:48
24020200-013A	BRH-61	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:45	02/01/2024 6:50
24020200-014A	BRH-62	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:48	02/01/2024 6:51
24020200-015A	BRH-63	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:52	02/01/2024 6:52
24020200-016A	BRH-64	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 15:56	02/01/2024 6:52
24020200-017A	BRH-65	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 16:06	02/01/2024 6:53
24020200-018A	BRH-66	NELAP	1.0	< 1.0	μg/L	5	02/23/2024 20:02	02/01/2024 6:54
24020200-019A	BRH-67	NELAP	1.0	< 1.0	μg/L	5	02/23/2024 20:05	02/01/2024 6:54
24020200-020A	BRH-68	NELAP	1.0	< 1.0	μg/L	5	02/23/2024 20:20	02/01/2024 6:54
24020200-021A	BRH-79	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 16:21	02/01/2024 7:01
24020200-022A	BRH-80	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 16:25	02/01/2024 7:03
24020200-023A	BRH-81	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 16:36	02/01/2024 7:05
24020200-024A	CORE-01	NELAP	1.0	< 1.0	µg/L	5	02/23/2024 20:24	02/01/2024 7:23
24020200-025A	CORE-02	NELAP	1.0	< 1.0	µg/L	1	03/05/2024 16:39	02/01/2024 7:23
24020200-026A	CORE-03	NELAP	1.0	< 1.0	µg/L	1	03/05/2024 16:43	02/01/2024 7:23
24020200-027A	CORE-04	NELAP	1.0	2.3	µg/L	1	03/05/2024 16:47	02/01/2024 7:24
24020200-028A	CORE-05	NELAP	1.0	< 1.0	µg/L	1	03/05/2024 16:50	02/01/2024 7:26
24020200-029A	CORE-06	NELAP	1.0	< 1.0	µg/L	1	03/05/2024 16:54	02/01/2024 7:26
24020200-030A	CORE-07	NELAP	1.0	< 1.0	µg/L	1	03/05/2024 17:09	02/01/2024 7:27
24020200-031A	BRH-69	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:12	02/01/2024 6:56
24020200-032A	BRH-70	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:23	02/01/2024 6:57
24020200-033A	BRH-71	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:27	02/01/2024 6:57
24020200-034A	BRH-72	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:31	02/01/2024 6:59
24020200-035A	BRH-73	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:34	02/01/2024 6:59
24020200-036A	BRH-74	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 17:45	02/01/2024 7:01
24020200-037A	BRH-75	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 18:07	02/01/2024 7:01
24020200-038A	BRH-76	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 18:11	02/01/2024 7:01
24020200-039A	BRH-77	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 18:15	02/01/2024 7:01
24020200-040A	BRH-78	NELAP	1.0	< 1.0	μg/L	1	03/05/2024 18:18	02/01/2024 7:01



## **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24020200 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 06-Mar-24 Carrier: Craig McKinney Received By: LM Completed by: moor Oleanc Reviewed by: On: On: 05-Feb-24 06-Feb-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C NA Type of thermal preservation? **V** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes **~** No **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials ✓ No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

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

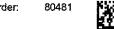
Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory.

# CHAIN OF CUSTODY pg. 37 of 40 Work order # 24020200

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

		·											-										. ,										
Client:		Geotechnology, L	LC										-										×	NO I		Δ	V.A	二。	C	LTG	#		
Address:		11816 Lackland R	load										I	Pres	sen	/ed	l in	:风	LAB	200	FIELI	כ			F	OR L	<u>AB</u>	USE	ON	<u>LY</u>			
City / State	/ Zip	St. Louis, MO 63	146										l	Lab	No	tes	•	,	•														
Contact:	Brad Lo	hrum			_ Pho	ne:	(3	14) 9	997-7	7440		_																					
E-Mail:	blohrum	n@teamues.com			_ Fax:	:	_						C	lier	nt C	om	ıme	ents	s:														
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## CHAIN OF CUSTODY

pg. 38 of 40 Work order # 24020200

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

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BottleOrder: 80481



CHAIN OF CUSTODY

pg.39 of 40 Work order # 24020200

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

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BottleOrder:

80481



## CHAIN OF CUSTODY

pg. 40 of 40 Work order # 24020200

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

Client:		Geotect	nology, Ll	LC												s	an	ıple	sc	n:		ICE		BLUE	ICE		NO K	Œ			0	С	LTG	#_		
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BottleOrder:

80481



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05002

05003

9978

1004652024-2

Illinois

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



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.

Work Order: 24062353

Client Project: J044517.01

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.

Work Order: 24062353

Client Project: J044517.01 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 )



### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

Client: Geotechnology, Inc. Work Order: 24062353

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

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



## **Laboratory Results**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

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)						
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	2A SMS-02-2	NELAP	1.0	3.5	μg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003	3A 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	5A SMS-60-2	NELAP	1.0	8.7	μg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006	6A 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 15:15
24062353-008	3A 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	2A RBE-08-2	NELAP	1.0	1.3	μg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013	BA 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	SA BRH-82	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016	SA BRH-83	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017	'A MCE-09-2	NELAP	1.0	1.3	μg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-018	BA 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 17:17
24062353-021	A RBH-103	NELAP	1.0	1.9	μg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022	2A RBH-104	NELAP	1.0	3.6	μg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023	BA RBH-105	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025	5A NHE-10-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026	6A NHE-16-2	NELAP	1.0	3.7	μg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-027	A CRE-70	NELAP	1.0	< 1.0	μg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-028	BA CRE-71	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029	A RAC-08-2	NELAP	1.0	13.2	μg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030	)A SBE-02-2	NELAP	1.0	4.6	μg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031	A LSE-06-2	NELAP	1.0	2.1	μg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032	2A JMS-11-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033	3A EFS-01-2	NELAP	1.0	6.4	μg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034	A HHS-18-2	NELAP	1.0	2.7	μg/L	1	07/03/2024 20:15	06/26/2024 19:32
24062353-035	5A OMS-08-2	NELAP	1.0	< 1.0	μg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036	6A OMS-10-2	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 20:45	06/26/2024 19:57
24062353-038		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:48	06/26/2024 20:00
24062353-039		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11
24062353-044		NELAP	1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-045		NELAP	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		NELAP	1.0	4.3	µg/L	1	07/03/2024 23:51	06/26/2024 21:20



## **Laboratory Results**

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

Client: Geotechnology, Inc. Work Order: 24062353

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

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
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	BA 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	6A 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/

Work Order: 24062353 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 11-Jul-24 Carrier: Craig McKinney Received By: NR Completed by: Reviewed by: On: On: 28-Jun-24 28-Jun-24 Paul Schultz Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **V** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No  $\square$ Any No responses must be detailed below or on the COC.

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

# CHAIN OF CUSTODY pg. 2 of 6 Work order # 24062573

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

<u> </u>																					***************************************			
Client:	Geotechnology, LLC									Samples on: 🔞 ICE 🔞 BLUE ICE 🦷 NO									ICE°C LTG#					
Address:	11816 Lackland R									ser	ved	in	: 🐷	LAB	FIELD	FO	FOR LAB USE ONLY							
City / State	/ Zip St. Louis, MO 63									No	tes	;											r	
Contact:	Brad Lohrum	Phone	Phone: (314) 997-7440																					
E-Mail:	blohrum@teamues.com	Fax:	Fax:					- c	Client Comments:															
Are these sample	s known to be involved in life	tigation? If yes, a surcharge	will app	oly	<u> </u>	Yes	N N	0																
	s known to be hazardous?																							
Are there any requirements in the comm		net on the requested analys No	is?. If y	es, p	lease	provi	de																	
Project Name/Number   Sample Collector's Name							┰┸┈	MATRIX INDICATE ANALYSIS REQUESTED												1000				
-	14517.01	•	Brad Lohrum										Т	DW										
Results Requested								┫ <sub>⋗</sub> ͺ	rin			Spe	Groundwater											
Standard	1-2 Day (100% Surcharge)	Billing Instructions		1			7 .	Que .	cing	Soil	Sludge	cia a	und	Lead										
Other	3 Day (50% Surcharge)		UNPRES	Nao	12S	H O	laHS	Aqueous	Drinking Water	==	ge	Special Waste	wat	E2(										
Lab Use Only	Sample Identification	Date/Time Sampled	ES	I	4	エ	\$ 2		ter		Ì	ŧė .	er	E200.8										
Ject 2553-611	PKE-70-2	6/26/24 3:55	1						X					X										
-012	RBE-68-2	4:06	1						X					X									The state of the s	
-0i3	RBE-11-2	4:07	1						X					X										
-0M	FES-52-2	4:16	1						Χ					X		4								
-015	BRH-82	4:33	1						X					X		***								
-oli	BRH - 83	4:36	1						Х					Х										
017	MCE -09-2	4:51	1						Χ					Х										
-0/4	MCE-87	4:54	1						X					X										
-619	MCE- 88	1 +	1						X					X									444	
-020	RBH-30-2	5.17	1						Х					X										
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## **APPENDIX D**

**LIMITATIONS OF REPORT** 

# ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

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