

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS FAIRVIEW ELEMENTARY SCHOOL 909 SOUTH FAIRVIEW ROAD COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

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

> Date: AUGUST 26, 2024

> > Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE





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

August 26, 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 Fairview Elementary School 909 South Fairview 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 Fairview Elementary School, located southwest of the intersection of Yorktown Drive and South Fairview 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 February 7 and 8, 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. 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
FES-04 / Room 100 Sink	10.2 ppb
FES-18 / Room 140 Sink	7.3 ppb
FES-21 / Room 104 Sink	9.7 ppb
FES-23 / Room 105 Sink	11.5 ppb
FES-24 / Room 105 Bubbler	11.9 ppb
FES-32 / Room 109 Bubbler	5.5 ppb
FES-36 / Room 113 Sink	16.8 ppb
FES-37 / Room 113 Bubbler	19.1 ppb
FES-39 / Room 115 Bubbler	6 ppb
FES-40 / Room 117 Sink	8.8 ppb
FES-50 / Room 122 Sink	14.1 ppb
FES-52 / Hallway Water Fountain at Room 124	14.1 ppb
FES-54 / Room 123 Bubbler	9.2 ppb
FES-55 / Room 142 Sink	5.5 ppb
FES-57 / Room 124 Sink	36.1 ppb
FES-58 / Room 124 Bubbler	9.4 ppb
FES-59 / Room 125 Sink	7.8 ppb
FES-60 / Room 125 Bubbler	8.7 ppb
FES-61 / Room 126 Sink	5.4 ppb
FES-65 / Room 128 Sink	6.4 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 a water sample from the water fountain located in the hallway at Room 124 (FES-52-2) for laboratory analysis following the completion of remediation activities. The result of the water sample analysis was 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:

• It is our understanding that the remaining outlets identified in Table 1 that were not resampled have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.

* * * * * *

The following attachments are included in and complete this report:

Figure 1	-	Drinking Water Sample Locations
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.

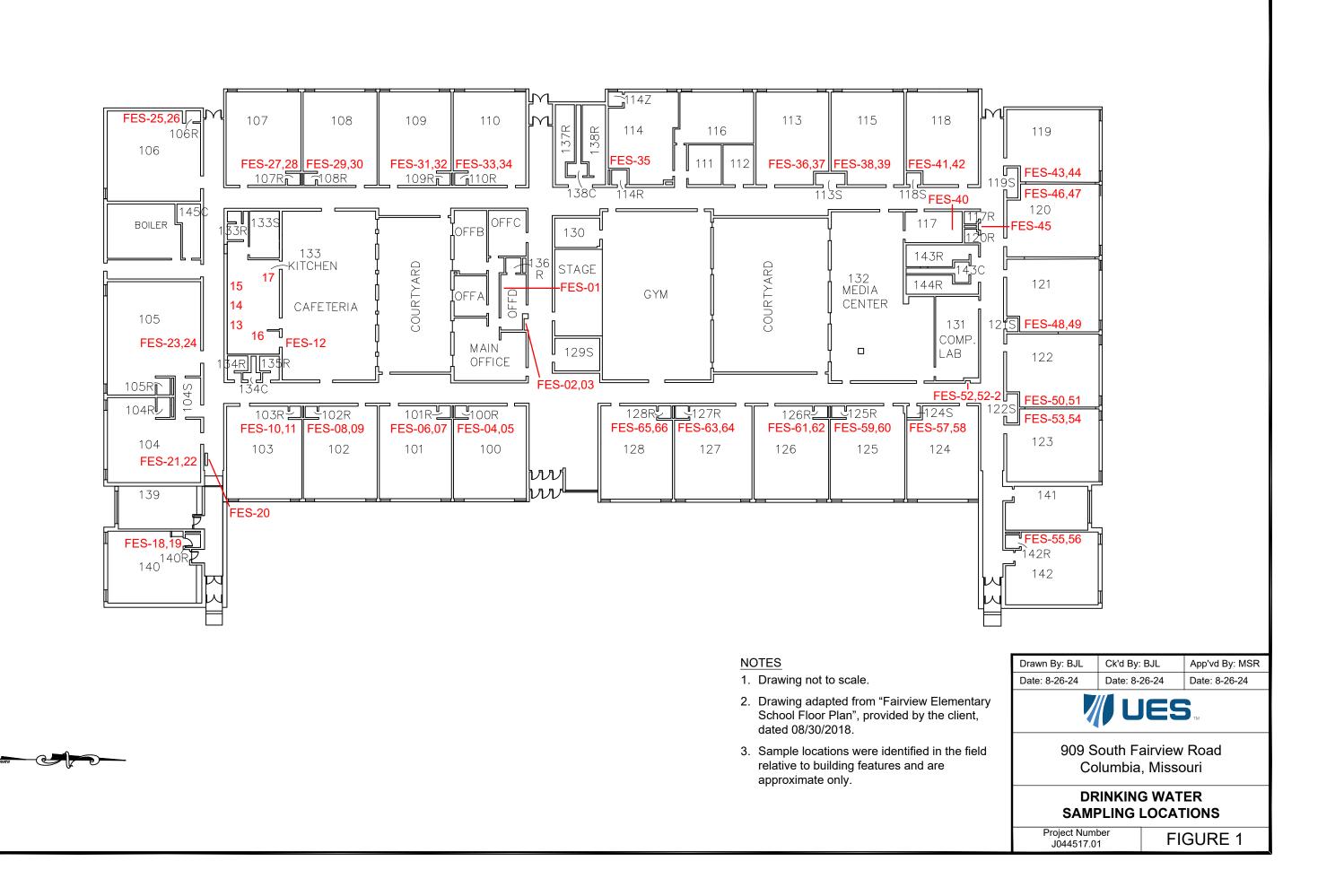
Very truly yours,

UES

Brookly Jolor

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

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

has attended

8 contact hours of training and successfully passed an examination

Lead Inspector Refresher

St. Louis, MO

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

Kine Christopher C. King PhD

Director, Center for Environmental Education and Training

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

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

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

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

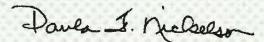
Seth P. Lamble

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

> Lead Inspector Category of License

Issuance Date: Expiration Date: License Number:

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



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

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

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: Fairview Elementary

Project Number: J044517.01

Address: 909 South Fairview Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
FES-01	S	Office D	SPL - 2/7/24 - 18:57	SPL - 2/8/24 - 4:18
FES-02	BF	Hallway at Office D	SPL - 2/17/24 - 19:00	SPL - 2/8/24 - 4:20
FES-03	WF	Hallway at Office D	SPL - 2/7/24 - 19:00	SPL - 2/8/24 - 4:20
FES-04	S	Room 100	SPL - 2/7/24 - 19:02	SPL - 2/8/24 - 4:21
FES-05	В	Room 100	SPL - 2/7/24 - 19:02	SPL - 2/8/24 - 4:21
FES-06	S	Room 101	SPL - 2/7/24 - 19:05	SPL - 2/8/24 - 4:22
FES-07	В	Room 101	SPL - 2/7/24 - 19:05	SPL - 2/8/24 - 4:22
FES-08	S	Room 102	SPL - 2/7/24 - 19:06	BJL - 2/8/24 - 4:22
FES-09	В	Room 102	SPL - 2/7/24 - 19:06	BJL - 2/8/24 - 4:22
FES-10	S	Room 103	SPL - 2/7/24 - 19:07	SPL - 2/8/24 - 4:26
FES-11	В	Room 103	SPL - 2/7/24 - 19:07	SPL - 2/8/24 - 4:26
FES-12	WF	Cafeteria	SPL - 2/7/24 - 19:08	BJL - 2/8/24 - 4:26
FES-13	S	Kitchen Dishwash - Left	SPL - 2/7/24 - 19:10	SPL - 2/8/24 - 4:28
FES-14	S	Kitchen Dishwash - Center	SPL - 2/7/24 - 19:10	SPL - 2/8/24 - 4:28
FES-15	S	Kitchen Dishwash - Right	SPL - 2/7/24 - 19:10	SPL - 2/8/24 - 4:28
FES-16	S	Kitchen Food Prep	BJL - 2/7/24 - 19:10	BJL - 2/8/24 - 4:28
FES-17	ICE	Kitchen	SPL - 2/7/24 - 19:11	SPL - 2/8/24 - 4:28
FES-18	S	Room 140	SPL - 2/7/24 - 19:15	SPL - 2/8/24 - 4:30
FES-19	В	Room 140	SPL - 2/7/24 - 19:15	SPL - 2/8/24 - 4:30
FES-20	WF	Hallway at Room 104	SPL - 2/7/24 - 19:16	BJL - 2/8/24 - 4:31
FES-21	S	Room 104	SPL - 2/7/24 - 19:17	SPL - 2/8/24 - 4:33
FES-22	В	Room 104	SPL - 2/7/24 - 19:17	SPL - 2/8/24 - 4:33
FES-23	S	Room 105	SPL - 2/7/24 - 19:18	SPL - 2/8/24 - 4:35
FES-24	В	Room 105	SPL - 2/7/24 - 19:18	SPL - 2/8/24 - 4:35
FES-25	S	Room 106	SPL - 2/7/24 - 19:20	SPL - 2/8/24 - 4:36

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: Fairview Elementary

Project Number: J044517.01

Address: 909 South Fairview Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
FES-26	В	Room 106	SPL - 2/7/24 - 19:20	SPL - 2/8/24 - 4:36
FES-27	S	Room 107	SPL - 2/7/24 - 19:22	SPL - 2/8/24 - 4:37
FES-28	В	Room 107	SPL - 2/7/24 - 19:22	SPL - 2/8/24 - 4:37
FES-29	S	Room 108	SPL - 2/7/24 - 19:23	SPL - 2/8/24 - 4:39
FES-30	В	Room 108	SPL - 2/7/24 - 19:23	SPL - 2/8/24 - 4:39
FES-31	S	Room 109	SPL - 2/7/24 - 19:24	SPL - 2/8/24 - 4:40
FES-32	В	Room 109	SPL - 2/7/24 - 19:24	SPL - 2/8/24 - 4:40
FES-33	S	Room 110	SPL - 2/7/24 - 19:25	SPL - 2/8/24 - 4:42
FES-34	В	Room 110	SPL - 2/7/24 - 19:25	SPL - 2/8/24 - 4:42
FES-35	S	Room 114	SPL - 2/7/24 - 19:28	SPL - 2/8/24 - 4:43
FES-36	S	Room 113	SPL - 2/7/24 - 19:31	SPL - 2/8/24 - 4:45
FES-37	В	Room 113	SPL - 2/7/24 - 19:31	SPL - 2/8/24 - 4:45
FES-38	S	Room 115	SPL - 2/7/24 - 19:34	SPL - 2/8/24 - 4:46
FES-39	В	Room 115	SPL - 2/7/24 - 19:34	SPL - 2/8/24 - 4:46
FES-40	S	Room 117	SPL - 2/7/24 - 19:34	BJL - 2/8/24 - 4:46
FES-41	S	Room 118	SPL - 2/7/24 - 19:35	SPL - 2/8/24 - 4:48
FES-42	В	Room 118	SPL - 2/7/24 - 19:35	SPL - 2/8/24 - 4:48
FES-43	S	Room 119	SPL - 2/7/24 - 19:38	SPL - 2/8/24 - 4:49
FES-44	В	Room 119	SPL - 2/7/24 - 19:38	SPL - 2/8/24 - 4:49
FES-45	WF	Hallway at Room 120	SPL - 2/7/24 - 19:39	BJL - 2/8/24 - 4:50
FES-46	S	Room 120	SPL - 2/7/24 - 19:40	SPL - 2/8/24 - 4:54
FES-47	В	Room 120	SPL - 2/7/24 - 19:40	SPL - 2/8/24 - 4:54
FES-48	S	Room 121	SPL - 2/7/24 - 19:41	SPL - 2/8/24 - 4:55
FES-49	В	Room 121	SPL - 2/7/24 - 19:41	SPL - 2/8/24 - 4:55
FES-50	S	Room 122	SPL - 2/7/24 - 19:42	SPL - 2/8/24 - 4:56

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 Project Number: J044517.01

Building Name: Fairview Elementary

Address: 909 South Fairview Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
FES-51	В	Room 122	SPL - 2/7/24 - 19:42	SPL - 2/8/24 - 4:56
FES-52	WF	Hallway at Room 124	SPL - 2/7/24 - 19:44	SPL - 2/8/24 - 4:57
FES-53	S	Room 123	SPL - 2/7/24 - 19:45	SPL - 2/8/24 - 4:58
FES-54	В	Room 123	SPL - 2/7/24 - 19:45	SPL - 2/8/24 - 4:58
FES-55	S	Room 142	SPL - 2/7/24 - 19:47	SPL - 2/8/24 - 5:00
FES-56	В	Room 142	SPL - 2/7/24 - 19:47	SPL - 2/8/24 - 5:00
FES-57	S	Room 124	SPL - 2/7/24 - 19:48	SPL - 2/8/24 - 5:01
FES-58	В	Room 124	SPL - 2/7/24 - 19:48	SPL - 2/8/24 - 5:01
FES-59	S	Room 125	SPL - 2/7/24 - 19:50	SPL - 2/8/24 - 5:02
FES-60	В	Room 125	SPL - 2/7/24 - 19:50	SPL - 2/8/24 - 5:02
FES-61	S	Room 126	SPL - 2/7/24 - 19:52	SPL - 2/8/24 - 5:04
FES-62	В	Room 126	SPL - 2/7/24 - 19:52	SPL - 2/8/24 - 5:04
FES-63	S	Room 127	SPL - 2/7/24 - 19:53	SPL - 2/8/24 - 5:05
FES-64	В	Room 127	SPL - 2/7/24 - 19:53	SPL - 2/8/24 - 5:05
FES-65	S	Room 128	SPL - 2/7/24 - 19:55	SPL - 2/8/24 - 5:06
FES-66	В	Room 128	SPL - 2/7/24 - 19:55	SPL - 2/8/24 - 5:06
FES-52-2	WF	Hallway at Room 124	BJL - 6/25/24 - 20:13	BJL - 6/26/24 - 4:16

BF=Bottle Filling B=Bubbler

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



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



http://www.teklabinc.com/

March 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: 24020828

Dear Brad Lohrum:

TEKLAB, INC received 50 samples on 2/12/2024 11:20:00 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,

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: 24020828 Report Date: 11-Mar-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: 24020828

Report Date: 11-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)



Client Project: J044517.01

Definitions

http://www.teklabinc.com/

Work Order: 24020828 Report Date: 11-Mar-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: 24020828 Report Date: 11-Mar-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: 24020828

Report Date: 11-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

·• T				
te I	pt Cert	t # NELAP I	Exp Date La	ab
ois IE	A 100226	6 NELAP 1	/31/2025 Collins	ville
sas K	HE E-10374	V4 NELAP 4	/30/2024 Collins	ville
isiana Li	EQ 05002	2 NELAP 6	5/30/2024 Collins	ville
isiana Li	EQ 05003	8 NELAP 6	5/30/2024 Collins	ville
ahoma O	EQ 9978	NELAP 8	8/31/2024 Collins	ville
ansas A	EQ 88-0966	3	3/14/2024 Collins	ville
ois II	Н 17584	4 5	5/31/2025 Collins	ville
ı II	IR 430		6/1/2024 Collins	ville
tucky U	Г 0073	1	/31/2025 Collins	ville
souri M	NR 00930) 10	0/31/2026 Collins	ville
souri M	NR 930	1	/31/2025 Collins	ville
sas K isiana L isiana L ahoma O ansas A ois II a II tucky U souri M	HE E-10374 EQ 05002 EQ 05003 EQ 9978 EQ 88-0966 H 17584 IR 430 INR 00930	74 NELAP 4 2 NELAP 6 3 NELAP 6 36 NELAP 8 56 3 4 5 0 10 10	30/2024 Collins 5/30/2024 Collins 5/30/2024 Collins 5/30/2024 Collins 5/31/2024 Collins 5/31/2025 Collins 6/1/2024 Collins //31/2025 Collins 0/31/2026 Collins	ville ville ville ville ville ville ville ville ville



Laboratory Results

http://www.teklabinc.com/

Work Order: 24020828

Report Date: 11-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	L Result U		DF	Date Analyzed	Date Collected
	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24020828-001	A PES-22-2	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:00	02/08/2024 3:46
24020828-002	A DHS-26-2	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:04	02/08/2024 3:58
24020828-003	A FES-01	NELAP	1.0	2.9	µg/L	1	03/07/2024 16:50	02/08/2024 4:18
24020828-004	A FES-02	NELAP	1.0	< 1.0	µg/L	5	03/04/2024 9:21	02/08/2024 4:20
24020828-005	A FES-03	NELAP	1.0	1.9	µg/L	1	03/07/2024 16:54	02/08/2024 4:20
24020828-006	A FES-04	NELAP	1.0	10.2	μg/L	5	03/04/2024 9:08	02/08/2024 4:21
24020828-007	A FES-05	NELAP	1.0	1.4	µg/L	1	03/07/2024 16:57	02/08/2024 4:21
24020828-008	A FES-06	NELAP	1.0	3.8	µg/L	5	03/04/2024 9:12	02/08/2024 4:22
24020828-009	A FES-07	NELAP	1.0	3.3	µg/L	1	03/07/2024 17:01	02/08/2024 4:22
24020828-010	A FES-08	NELAP	1.0	2.8	µg/L	1	03/07/2024 17:05	02/08/2024 4:22
24020828-011	A FES-09	NELAP	1.0	1.1	μg/L	1	03/07/2024 17:27	02/08/2024 4:22
24020828-012	A FES-10	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 17:30	02/08/2024 4:26
24020828-013	A FES-11	NELAP	1.0	1.3	µg/L	1	03/07/2024 17:34	02/08/2024 4:26
24020828-014	A FES-12	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 17:38	02/08/2024 4:26
24020828-015	A FES-13	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 17:41	02/08/2024 4:28
24020828-016	A FES-14	NELAP	1.0	2.0	µg/L	1	03/07/2024 17:45	02/08/2024 4:28
24020828-017	A FES-15	NELAP	1.0	1.1	µg/L	1	03/07/2024 17:49	02/08/2024 4:28
24020828-018	A FES-16	NELAP	1.0	2.1	μg/L	1	03/07/2024 17:52	02/08/2024 4:28
24020828-019	A FES-17	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:56	02/08/2024 4:28
24020828-020	A FES-18	NELAP	1.0	7.3	μg/L	1	03/07/2024 18:11	02/08/2024 4:30
24020828-021	A FES-19	NELAP	1.0	1.3	μg/L	1	03/07/2024 18:22	02/08/2024 4:30
24020828-022	A FES-20	NELAP	1.0	2.1	μg/L	1	03/07/2024 18:25	02/08/2024 4:31
24020828-023	A FES-21	NELAP	1.0	9.7	μg/L	1	03/08/2024 14:07	02/08/2024 4:33
24020828-024		NELAP	1.0	1.4	μg/L	5	03/04/2024 9:17	02/08/2024 4:33
24020828-025		NELAP	1.0	11.5	µg/L	1	03/08/2024 14:10	02/08/2024 4:35
24020828-026		NELAP	1.0	11.9	µg/L	1	03/08/2024 14:14	02/08/2024 4:35
24020828-027		NELAP	1.0	3.1	μg/L	1	03/08/2024 14:18	02/08/2024 4:36
24020828-028		NELAP	1.0	2.9	μg/L	1	03/08/2024 14:21	02/08/2024 4:36
24020828-029		NELAP	1.0	2.3	μg/L	1	03/08/2024 14:32	02/08/2024 4:37
24020828-030		NELAP	1.0	1.1	μg/L	1	03/08/2024 14:36	02/08/2024 4:37
24020828-031		NELAP	1.0	< 1.0	μg/L	1	03/08/2024 14:40	02/08/2024 4:39
24020828-032		NELAP	1.0	2.3	µg/L	1	03/08/2024 14:54	02/08/2024 4:39
24020828-033		NELAP	1.0	2.9	μg/L	1	03/08/2024 14:58	02/08/2024 4:40
24020828-034		NELAP	1.0	5.5	μg/L	1	03/08/2024 15:02	02/08/2024 4:40
24020828-035		NELAP	1.0	4.0	μg/L	5	03/04/2024 12:06	02/08/2024 4:42
24020828-036		NELAP	1.0	2.7	μg/L	5	03/04/2024 12:11	02/08/2024 4:42
24020828-037		NELAP	1.0	< 1.0	μg/L	1	03/08/2024 15:13	02/08/2024 4:42
24020828-038		NELAP	1.0	16.8	μg/L	5	03/04/2024 12:15	02/08/2024 4:45
24020828-039		NELAP	1.0	19.1	μg/L	5	03/04/2024 12:19	02/08/2024 4:45
24020828-039		NELAP	1.0	4.9		5	03/04/2024 12:19	02/08/2024 4:45
24020828-040					µg/L			
24020828-041		NELAP NELAP	1.0 1.0	6.0	µg/L	1 5	03/08/2024 15:16 03/04/2024 12:28	02/08/2024 4:46 02/08/2024 4:46
				8.8	μg/L			
24020828-043			1.0	3.2	µg/L	1	03/07/2024 9:51	02/08/2024 4:48
24020828-044			1.0	4.4	µg/L	1	03/07/2024 9:54	02/08/2024 4:48
24020828-045			1.0	3.4	µg/L	5	03/04/2024 12:32	02/08/2024 4:49
24020828-046			1.0	2.8	µg/L	1	03/07/2024 9:58	02/08/2024 4:49
24020828-047			1.0	1.2	µg/L uα/l	1	03/07/2024 10:02	02/08/2024 4:50
24020828-048	A FES-46	NELAP	1.0	4.1	µg/L	1	03/07/2024 10:05	02/08/2024 4:54

eklab, Inc.		Laborat	ory Result	http://www.teklabinc.com/						
Client: Geotechnology, In	Work Order: 2	4020828								
Client Project: J044517.01		Report Date: 1	1-Mar-24							
Matrix: DRINKING WATER	R									
Sample ID Client Sample ID C	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected			
EPA 600 4.1.4, 200.8 R5.4, METALS Lead	BY ICPMS (TOTAL	_)								
24020828-049A FES-47	NELAP	1.0	1.7	µg/L	1	03/07/2024 10:16	02/08/2024 4:54			
24020828-050A FES-48	NELAP	1.0	4.6	µg/L		03/07/2024 10:31	02/08/2024 4:55			



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020828 Report Date: 11-Mar-24

Carrier: Craig McKinney	Receiv	ed By: AMD)							
Completed by: On: 12-Feb-24 Amber Dilallo	C Revie Or 12-Fe	h-24	Elled Hopkens							
Pages to follow: Chain of custody 5	Extra pages included	0								
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C N/A						
Type of thermal preservation?	None 🗹			Dry Ice						
Chain of custody present?	Yes 🔽									
Chain of custody signed when relinguished 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	,	between								
Water – at least one vial per sample has zero headspace?	Yes	No	No VOA vials 🖌							
Water - TOX containers have zero headspace?	Yes	No	No TOX containers 🗹							
Water - pH acceptable upon receipt?	Yes 🔽	No	NA 🗌							
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🔽							
Any No responses	must be detailed belo	w or on the	coc.							

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 2/12/2024 3:14:22 PM

Page 9 of 9

pg. 1 of 23 Work order # 24020828

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

Client: Address:		Geotechnology, LLC 11816 Lackland Road										Samples on: ICE BLUE ICE NO ICE NA °C LTG# Preserved in: LAB I FIELD <u>FOR LAB USE ONLY</u>																
City / State	/ Zip	St. Louis, MO 631	46								l	.ab	Note	es	/	•												
Contact:): }	(31	4) 99	7-744()																							
E-Mail:	blohrum	num@teamues.com Fax:									С	lien	t Co	mm	ent	s:												
Are these sample Are there any requiring in the comm	s known uired repo tent secti	to be involved in liti to be hazardous? orting limits to be m ion. [] Yes [X]	Yes X net on the requ No	No ested analys	is?.	lf yes	plea		X vide	No																		
Project	Name/	Number	Si	ample Col	lec	tor's	Nar	ne				N			1								IS RI		ESTI			
J044517.01				Brad Lo								Drii		gs	G	DW -												
Result	s Requ	lested (100% Sumbarge)	Billing Ins	tructions			-	of Cor	1	rs	Aqu	nkin	Soil		oun	- Lead												
		y (50% Surcharge)			UNPRE	HNO3	H2SO	HCL	NaHSO4	OTHE	Aqueous	Drinking Water	Soil	Special Waste	Groundwater	td E200,8												
Lab Use Only	Sam	ple Identification	Date/Time	e Sampled	ŝ		-		4	~		e,		Ō.		0,8						<u> </u>						
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002	DHS	5-26-2	2/8/2	4 3:58	1							Х				X												
003	FES	5-01		4:18	1							Х				X						<u> </u>						
004	FE	5-02		4:20	1							Х				X				.425		ļ			ļ			
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Brand	Eugen fr 2/12/24 1015						4		$\underline{\lambda}$			ž	<u> </u>				4	2//	2/0	<u>2√</u>		161						
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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:	Geotechnology, Ll	LC						,	s	San	nple	es o	n:		ICE	8	BLU	E ICE		NO I	CE			¢	°C	LTC	₩		=]
Address:	11816 Lackland R	oad							F	res	serv	/ed	in	1	LAB	1	FIEL	D			F	<u>OR I</u>	_AB	USE	E ON	<u>LY</u>			
City / State	/ Zip St. Louis, MO 631	146							L	ab	No	tes																	
Contact:	Brad Lohrum	Phon	e:	(314) 997	7-7440																							
E-Mail:	blohrum@teamues.com	Fax:							С	lier	nt C	om	me	nts	:														
Are these samples Are there any requ	s known to be involved in lit s known to be hazardous? ured reporting limits to be n ent section.	Yes X No net on the requested analy No	sis?. If	yes,	pleas		X ride	No																					
Project I	Name/Number	Sample Co	llecto	or's	Nar	ne				N	IA T	RD	<u> </u>				1	INE	DICA	TE /		LYS	IS F	EQL	JEST	ED		T	
J04	4517.01	Brad L	.ohru	ım						Dri			ş	ດ	DW -														
Result	s Requested	Billing Instructions	#a	nd T	ype c	of Con	taine		Aqu	nkir	5	SI)ecia	rour	- Le														
	1-2 Day (100% Surcharge)		UNPRE	HNOS	H2SO	HCL	NaHSO	OTHE	ieous	Drinking Water	Soil	idge	Special Waste	ıdwate	Lead E200.8														
Lab Use Only	Sample Identification	Date/Time Sampled	ŝ		4		· 4	ק		er			ଜ	7	0,8							ļ	_	L	_	<u> </u>	┢	ļ	
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BottleOrder: 80481

pg. 2 of 23 Work order #2402082%



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

Client:	Geotechnology, LL	C								s	am	ple	s on:	鯼) ICE	22	BLU	E ICE			E			_ ^(C	LTG/	¥		
Address:	11816 Lackland Ro	pad							_	P	res	erv	ed ir	1: 🕅	LAE		FIEL	D			FC	<u>DR L</u>	AB L	JSE	ONL	Y			
City / State	/ Zip St. Louis, MO 631	46								L	ab	Not	es																
Contact:	Brad Lohrum		Phone		(314)	997-	7440																						
E-Mail:	blohrum@teamues.com		Fax:							С	ien	t Co	mm	ent	s:														
Are these samples	s known to be involved in liti	gation? If yes, a	a surcharge v	vill ap	oly		Yes		No																				
Are these samples	s known to be hazardous?	Yes 🛛 🕅	No																										
Are there any requiring limits in the comm	ired reporting limits to be m ent section. Yes X	et on the reque	sted analysis	s?. If y	/es, p	lease	e prov	ide																					
	Name/Number		mple Coll	ecto	r's l	Vam	е			_	M	ATI	RIX		Γ			INC		TEA	NAL	YSI	s re	QU	ESTI	ED			
J04	4517.01		Brad Lo	hru	m								s		DW -													Π	
Result	s Requested	Billing Inst				pe of	Cont	ainer	5	Ag	Drinking Water	Ŀ	Special Waste	Groundwater	1÷														
	1-2 Day (100% Surcharge)			⊆∣₁		I	2	z	0	queous	na	Soil	alv	Ndv	Lead														
Other	3 Day (50% Surcharge)			UNPRES	Į	2SO	뒫혛	HSO	OTHER	sn	Xat	ſ	Vast	vate	E200.8														
Lab Use Only	Sample Identification	Date/Time	Sampled	Ξ S	<u> </u>	Î	1	4	20		er		ð	Ē	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

pg. 3 of 23 Work order # 24020828



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

Client:	Geotechnology, L	LC			-					T	Sai	mp	les	on:		ICE	1	BLU	E ICE			E			_ °	С	LTG	#		
Address:	11816 Lackland R	load									Pre	se	rve	d in	巖	LAB	1	FIEL	D			<u>F(</u>	OR L	AB I	USE	ONI	<u>_Y</u>			
City / State	/ Zip St. Louis, MO 63	146									Lal	b N	ote	5																
Contact:	Brad Lohrum		_ Phone):	(31	4) 9	97-744	0																						
	blohrum@teamues.com		_ Fax:							.	Clie	nt	Cor	nme	ents	5:														
Are these samples Are there any requ	s known to be involved in lit s known to be hazardous? ired reporting limits to be r ent section.	Yes X net on the requ	No				Yes		No R	, ,																				
Project I	Name/Number	S	ample Col	lect	or's	Na	me			Ľ		MA	TR	X					INC	DICA	TEA	NA	LYS	IS RI	EQU	EST	ED			
J04	4517.01		Brad Lo	ohr	um					Γ	D			S.	م ا	DW														
Results	s Requested	Billing Ins	tructions	#:	and	уре	of Co	ntai	ners		a inki		SIC	Decia	rout	- Lead														
1	1-2 Day (100% Surcharge)	-		UNPRES	HNOS	N ² OF	HCL	MeOH	NaHSO4	Aqueous	Drinking Water	Soll	Sludge	Special Waste	Groundwater	ad E200,8														
Lab Use Only	Sample Identification	Date/Time	e Sampled	S					<u>^</u>		er		_		~	_														
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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. 4 of 23 Work order # 24020828



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

Client:	G	eotechnology, L	LC							•			S	am	ple	s on	: [<u></u>	CE		BLUE	ICE	8	NO IO	CE	_		. (°C	LTC	Э#		
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City / State	/Zip St	. Louis, MO 63	146									_	L	ab	Not	es																	
Contact:	Brad Lohn	um		Ph	one	:	(31	4) 99	7-74	40		_								•													
E-Mail:	blohrum@	teamues.com		Fa	x:							_	CI	ien	t Co	mn	ner	nts:															
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		0% Surcharge)	•	-		ç	r z			3	z d		Aqueous	na	Soil			ndw	Lead														
Other	3 Day (\$	50% Surcharge)				JPRE	NOS	SSO	HCL	e P H	NaHSO4		S I	Drinking Water	ſ	Special Waste		Groundwater	E200.8														
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BottleOrder: 80481

pg. 5 of 23 Work order # 24010828





http://www.teklabinc.com/

March 08, 2024

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

RE: J044517.01



WorkOrder: 24020883

Dear Brad Lohrum:

TEKLAB, INC received 50 samples on 2/12/2024 11:20:00 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,

Elizabeth & Hurley

Elizabeth A. Hurley Director of Customer Service (618)344-1004 ex 33 ehurley@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020883 Report Date: 08-Mar-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: 24020883

Report Date: 08-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)



Client Project: J044517.01

Definitions

http://www.teklabinc.com/

Work Order: 24020883

Report Date: 08-Mar-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: 24020883 Report Date: 08-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/

Work Order: 24020883

Report Date: 08-Mar-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: 24020883

Report Date: 08-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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								
24020883-001	A FES-49	NELAP	1.0	1.7	µg/L	5	03/04/2024 12:37	02/08/2024 4:55
24020883-002/	A FES-50	NELAP	1.0	14.1	µg/L	5	03/04/2024 11:09	02/08/2024 4:56
24020883-003/	A FES-51	NELAP	1.0	< 1.0	µg/L	5	03/04/2024 11:01	02/08/2024 4:56
24020883-004	A FES-52	NELAP	1.0	14.1	µg/L	5	03/04/2024 11:05	02/08/2024 4:57
24020883-005/	A FES-53	NELAP	1.0	2.0	µg/L	1	03/07/2024 10:35	02/08/2024 4:58
24020883-006	A FES-54	NELAP	1.0	9.2	µg/L	1	03/07/2024 10:39	02/08/2024 4:58
24020883-007/	A FES-55	NELAP	1.0	5.5	µg/L	1	03/07/2024 10:42	02/08/2024 5:00
24020883-008	A FES-56	NELAP	1.0	1.9	µg/L	5	03/04/2024 11:14	02/08/2024 5:00
24020883-009/	A FES-57	NELAP	1.0	36.1	µg/L	5	03/04/2024 11:18	02/08/2024 5:01
24020883-010/	A FES-58	NELAP	1.0	9.4	µg/L	5	03/04/2024 11:22	02/08/2024 5:01
24020883-011/	A FES-59	NELAP	1.0	7.8	µg/L	1	03/07/2024 10:53	02/08/2024 5:02
24020883-012/	A FES-60	NELAP	1.0	8.7	µg/L	1	03/07/2024 10:57	02/08/2024 5:02
24020883-013/	A FES-61	NELAP	1.0	5.4	µg/L	1	03/07/2024 11:01	02/08/2024 5:04
24020883-014/	A FES-62	NELAP	1.0	3.5	µg/L	1	03/07/2024 11:04	02/08/2024 5:04
24020883-015/	A FES-63	NELAP	1.0	1.3	µg/L	1	03/07/2024 11:19	02/08/2024 5:05
24020883-016	A FES-64	NELAP	1.0	1.4	µg/L	1	03/07/2024 11:23	02/08/2024 5:05
24020883-017/	A FES-65	NELAP	1.0	6.4	µg/L	1	03/07/2024 11:26	02/08/2024 5:06
24020883-018/	A FES-66	NELAP	1.0	2.6	µg/L	1	03/07/2024 11:37	02/08/2024 5:06
24020883-019/	A GES-01	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 11:41	02/08/2024 5:25
24020883-020/	A GES-02	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 11:45	02/08/2024 5:25
24020883-021/	A GES-03	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 11:48	02/08/2024 5:25
24020883-022/	A GES-04	NELAP	1.0	4.8	µg/L	1	03/07/2024 11:52	02/08/2024 5:26
24020883-023/	A GES-05	NELAP	1.0	3.6	µg/L	1	03/07/2024 14:12	02/08/2024 5:26
24020883-024/	A GES-06	NELAP	1.0	2.6	µg/L	1	03/07/2024 14:16	02/08/2024 5:27
24020883-025/	A GES-07	NELAP	1.0	2.8	µg/L	1	03/07/2024 14:20	02/08/2024 5:27
24020883-026/	A GES-08	NELAP	1.0	2.1	µg/L	1	03/07/2024 14:23	02/08/2024 5:28
24020883-027/	A GES-09	NELAP	1.0	2.8	µg/L	1	03/07/2024 14:27	02/08/2024 5:28
24020883-028/	A GES-10	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 14:38	02/08/2024 5:33
24020883-029/	A GES-11	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 14:42	02/08/2024 5:33
24020883-030/	A GES-12	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 14:45	02/08/2024 5:33
24020883-031/	A GES-13	NELAP	1.0	2.6	µg/L	5	03/04/2024 11:27	02/08/2024 5:33
24020883-032/	A GES-14	NELAP	1.0	1.3	µg/L	5	03/02/2024 5:18	02/08/2024 5:33
24020883-033/	A GES-15	NELAP	1.0	1.9	µg/L	1	03/07/2024 19:16	02/08/2024 5:35
24020883-034/	A GES-16	NELAP	1.0	1.6	µg/L	1	03/07/2024 19:20	02/08/2024 5:35
24020883-035/	A GES-17	NELAP	1.0	2.4	µg/L	1	03/07/2024 19:24	02/08/2024 5:36
24020883-036/	A GES-18	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 19:28	02/08/2024 5:36
24020883-037/	A GES-19	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 19:32	02/08/2024 5:39
24020883-038/	A GES-20	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 19:36	02/08/2024 5:39
24020883-039/	A GES-21	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 18:51	02/08/2024 5:39
24020883-040/	A GES-22	NELAP	1.0	34.4	µg/L	5	03/02/2024 5:10	02/08/2024 5:40
24020883-041/	A GES-23	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 19:44	02/08/2024 5:41
24020883-042/	A GES-24	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 19:40	02/08/2024 5:42
24020883-043/	A GES-25	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 20:09	02/08/2024 5:42
24020883-044/	A GES-26	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 20:12	02/08/2024 5:42
24020883-045/	A GES-27	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 20:17	02/08/2024 5:43
24020883-046/	A GES-28	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 20:21	02/08/2024 5:44
24020883-047/	A GES-29	NELAP	1.0	8.6	µg/L	5	03/02/2024 5:14	02/08/2024 5:45
24020883-048/	A GES-30	NELAP	1.0	5.1	µg/L	5	03/02/2024 5:44	02/08/2024 5:45



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6	CKIAD, IIIC.
	Environmental Laboratory

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020883

Report Date: 08-Mar-24

Sample ID	Client Sample ID	Certification Qua	l RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1. Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTA	L)					
24020883-049	OA GES-31	NELAP	1.0	4.2	µg/L	5	03/02/2024 5:49	02/08/2024 5:47
24020883-050	A GES-32	NELAP	1.0	2.4	µg/L	1	03/06/2024 20:25	02/08/2024 5:47



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020883 Report Date: 08-Mar-24

Carrier: Craig McKinney	Receiv	ed By: AMD)	
Completed by: On: 12-Feb-24 Amber Dilallo	C Revie Or 12-Fe	h-24	Elled Hopki Ellie Hopkins	end
Pages to follow: Chain of custody 5	Extra pages included	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 relinguished 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 complian 0.1° C - 6.0° C, or when samples are received on ice the same		petween		
Water – at least one vial per sample has zero headspace?	Yes	No	No VOA vials 🖌	
Water - TOX containers have zero headspace?	Yes	No	No TOX containers	
Water - pH acceptable upon receipt?	Yes 🗹	No	NA 🗌	
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹	
Any No responses r	nust be detailed belo	w or on the	COC.	

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

CHAIN OF CUSTODY

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

Are these samples Are there any requirements limits in the comm	Brad Lohrum blohrum@teamues, s known to be involve s known to be hazard uired reporting limits ent section.	land Road IO 63146 com ed in litigation? If lous?] Yes to be met on the	X No requested analysi	will a s?. l	apply f yes	, ple		s	Ie	40	P L	res .ab lien	No No	ved ites iom	in:		LAB		BLUI FIEL	D	<i>, ,</i>	 <u>F(</u>	ĴĊ		R	ONL	-R			
Project	Name/Number		Sample Col	lect	tor's	s Na	me					N	TAI	RD	κ 1	_				INL		ANA	L T 31	3 KI	<u>- 40</u>					
	4517.01		Brad Lo									Drir			ŝ	Gr	- WC												ł	
🕅 Standard	s Requested 1-2 Day (100% Surcha	rge)	Instructions				of C		unen NaHSO4	S OTHE	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8													
Lab Use Only	Sample Identific	/Time Sampled	ES	ω			т	¥	R		ter			ē	ÿr	0.8									L			ļ		
24020883	FES- 4	9 2/8/	24 4:55	1								Х					Х							<u> </u>		<u> </u>		<u> </u>	 	
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Budg	2/18	1	21	/	11		2 _0		C	Ă	n		<u>_</u>		Si		e				241	-/ 2/1	<u>л</u> Ц	<u> </u>)	<u> </u>	2				

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

BottleOrder: 80481

pg. 6 of Z^3 Work order # <u>240208</u>83



CHAIN OF CUSTODY

pg. 7 of 23Work order # <u>240208</u>83

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

Client:	Geotechnology, LL	.C									s	Sam	ples	s on] ICE		BLU	E ICE	*	NO IC	E			0	С	LTG	¥		
Address:	11816 Lackland R	oad									P	res	erv	ed ir	ı: 📖		3 📓	FIEL	D			<u>F(</u>	<u>DR L</u>	<u>.AB I</u>	USE	ONL	<u>.Y</u>			
City / State	/ Zip St. Louis, MO 631	46									L	ab	Not	es																
Contact:	Brad Lohrum		Phone) :	(3	14) 9	97-74	440																						
E-Mail:	blohrum@teamues.com		Fax:							_	С	lien	t Co	mm	ent	s:														
Are these samples Are there any requirements in the comm	s known to be involved in liti s known to be hazardous? uired reporting limits to be n ent section. Yes X	Yes X net on the reque No	No ested analysi	is?. I	lf yes	, ple			de N	ło																				
Project	Name/Number	Sa	mple Col	lect	tor's	s Na	ame					M	ATF			<u> </u>			INC	DICA	TEA	NA		S RE	EQU	EST	ED	T		
J04	4517.01		Brad Lo	ohr	um							<u></u>		မှု	ิด	N														
Result	s Requested	Billing Inst	ructions	#:	and	Туре	e of C	onta	ainen	s	Aq	뤍	s la		lo,	- Le														
	1-2 Day (100% Surcharge)			UNPRE	HNO3	NaOH	HSOA	MeOH	NaHSO4	OTHE	Aqueous	Drinking Water	Soil	Special Waste	Groundwater	ad E200.8														
Lab Use Only	Sample Identification	Date/Time	Sampled	S		1			4	Ĩ		9		ſ		0.0													$ \rightarrow$	
24020885.	FES-59	2/8/24	5:02	1								X				X														
012	FES- 60	, í	+	1							_	X				X														
03	61		5:04	1								X				X														
OM	62		t	1								X				X														
015	63		5:05	1								X				X														
OIL	64		Ŧ	1						T		X		Τ		X	Ī													
00	65		5:00	1		┓				Ţ		X			Т	X	1	Ţ										Ţ		
018	- 66	17	T	1						T		X		Τ	Τ	X		1												
00	GES-01		5:25	1							_	X				X														
020	GES-02	compared with the second se	T	1						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





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
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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

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead 24062353-001/	A SMS-01-2	NELAP	1.0	4.6	110/	1	07/03/2024 17:08	06/26/2024 15:07
24062353-0017				4.6	µg/L	1		
24062353-002/ 24062353-003/		NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
		NELAP	1.0	7.5	µg/L		07/03/2024 17:26	06/26/2024 15:11
24062353-004/		NELAP	1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005/		NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006/		NELAP	1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007/		NELAP	1.0	7.4	µg/L	1	07/08/2024 22:34	06/26/2024 15:15
24062353-008/		NELAP	1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011/		NELAP	1.0	2.2	µg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012/		NELAP	1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013/		NELAP	1.0	1.6	µg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017/		NELAP	1.0	1.3	µg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-018/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020/		NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-021/		NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022/		NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023/		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/	A NHE-10-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026/	A 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/	A 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/	A JMS-11-2	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/	A HHS-18-2	NELAP	1.0	2.7	µg/L	1	07/03/2024 20:15	06/26/2024 19:32
24062353-035/	A OMS-08-2	NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036/	A OMS-10-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-037/	A OMS-12-2	NELAP	1.0	1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-038/	A OMS-17-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:00
24062353-039/	A OMS-20-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040/	A OMS-39	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041/	A OMS-40	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042/	A OMS-23-2	NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043/	A OMS-24-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11
24062353-044/	A OMS-29-2	NELAP	1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-045/	A EBE-35-3	NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046/	A EBE-63	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047/	A BHS-83-2	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

Matri	A: DRINKING WA	IER						
Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	, 200.8 R5.4, META	ALS 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	ua/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	R	ceived By: NR eviewed by: On: -Jun-24	Elled Hopkens							
Pages to follow: Chain of custody 6	Extra pages includ	led 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 relinguished and received?	Yes 🗸	No 🗌								
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌								
Samples in proper container/bottle?	Yes 🔽	No 🗌								
Sample containers intact?	Yes 🗹	No 🗌								
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌								
All samples received within holding time?	Yes 🗸	No 🗌								
Reported field parameters measured:	Field	Lab	NA 🗸							
Container/Temp Blank temperature in compliance?	Yes 🔽	No 🗌								
When thermal preservation is required, samples are compliant with a temperature between 0.1° C - 6.0° C, or when samples are received on ice the same day as collected.										
Water – at least one vial per sample has zero headspace?	Yes	No	No VOA vials 🖌							
Water - TOX containers have zero headspace?	Yes	No	No TOX containers 🗹							
Water - pH acceptable upon receipt?	Yes 🔽	No	NA 🗌							
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🔽							
Any No responses must be detailed below or on the COC.										

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

CHAIN OF CUSTODY

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

Client: Geotechnology, LLC						Samples on: 🖾 ICE 📓 BLUE ICE 🕅 NO ICE °C LTG#									
Client: Geotechnology, LLC Address: 11816 Lackland Road							Preserved in: LAB FIELD FOR LAB USE ONLY								
City / State	>>:														
Contact:	Brad Lohrum							Lan Holes							
E-Mail:	blohrum@teamues.com	Fax:	_ Flione					Client Comments:							
Are these samples known to be involved in litigation? If yes, a surcharge will apply							Chent Comments:								
-	s known to be involved in it. s known to be hazardous?		will apply		res	K n									
Are there any requ	uired reporting limits to be n	net on the requested analys	s?. If yes,	pleas	se prov	∕ide									
		No					┯┖								
Project Name/Number Sample Collector's Name					MATRIX INDICATE ANALYSIS REQUESTED										
J044517.01			ad Lohrum				<u>P</u> .		с <mark>у</mark>	្រ្ម	R				
Result	s Requested	Billing Instructions	# and 1	fype o	of Con	tainers	Aqueous	Drinking Water	6	<u>Special Waste</u> Sludge	Groundwater	- Lead			
	3 Day (50% Surcharge)		S I I	Z H	_ ≤		2 ē	ية ۷	Soil	<u>ecial Wa</u> Sludge	Mpi	ad E			
			HNO3 UNPRES	2 S		NaHSO4	S	Vate		aste	ater	E200.8			
Lab Use Only	Sample Identification	Date/Time Sampled	*				1.	₩			Ĺ	ά			
24062353-011	PKE-70-2	6/26/24 3:55	1					Х				X			
-012	RBE-08-2	4:06	1					X				X			
-013	RBF-11-2	4:07	1					X				X			
014	FES-52-2	4:16	1					X				X			
-015	BRH-82	4:33	1					X				Х			
-316	RRH - 83	4:36	1					X				X			
	MCE-09-2	4:51	1					X				X			
	MCE- 81	4:54	1					X				X			
-019	MCF- 88		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

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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.