

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
OAKLAND MIDDLE SCHOOL
3405 OAKLAND PLACE
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

DECEMBER 21, 2024

Project No.:

J044517.01







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

December 21, 2024

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

Re: Water Sampling and Reporting Services

Columbia Public Schools Oakland Middle School 3405 Oakland Place 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 revised 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 Oakland Middle School, located southwest of the intersection of Blue Ridge Road and Oakland Place 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 11 and 12, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor, and Mr. Seth Lamble, a



Missouri-licensed lead inspector. Copies of training certificates and lead licenses for Messrs. Lohrum, Haefner, and Lamble are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. Copies of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, are included in Appendix B. Floor plans depicting approximate sample locations are included as Figures 1 and 2.

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

RESULTS

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

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

Sample Number / Location and Fixture Type	Results
OMS-08 / Hallway at Cafeteria/Gym – Left-hand Bottle Filler	6.6 ppb
OMS-10 / Hallway at Cafeteria/Gym – Right-hand Bottle Filler	5.5 ppb
OMS-12 / Girl's Locker Room Water Fountain	5.6 ppb
OMS-17 / Room 174 Green Right-hand Sink	42.2 ppb
OMS-20 / Boy's Locker Room Water Fountain	7.1 ppb
OMS-21 / Room 117 Sink	26.2 ppb
OMS-23 / Hallway at Room 158 – Left-hand Water Fountain	8 ppb
OMS-24 / Hallway at Room 158 – Right-hand Water Fountain	6.7 ppb
OMS-25 / Hallway at Room 142 – Left-hand Water Fountain	6.9 ppb
OMS-29 / Room 147 Right-hand Sink	5.3 ppb

UES personnel returned to the site on June 25 and 26, 2024, to resample the locations listed in Table 1, except for OMS-21. At the time of resampling, OMS-25 had been replaced by a bottle filler and water fountain combination unit. This unit was sampled as OMS-39 and OMS-40. Laboratory analysis detected the presence of lead at or above 5 ppb in the following sample.



TABLE 2 RESAMPLED DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
OMS-29-2 / Room 147 Right-hand Sink	5.6 ppb

UES personnel returned to the site on September 19, 2024, to resample the sink located within Room 147 (OMS-29-3). Laboratory analysis of the submitted sample detected the presence of lead at the level below.

TABLE 3
RESAMPLED DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
OMS-29-3 / Room 147 Right-hand Sink	15.8 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 outlets identified OMS-21 and OMS-29 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 Sampling Locations – Ground Floor Figure 2 - Drinking Water Sampling Locations – Main Floor

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

* * * * * *



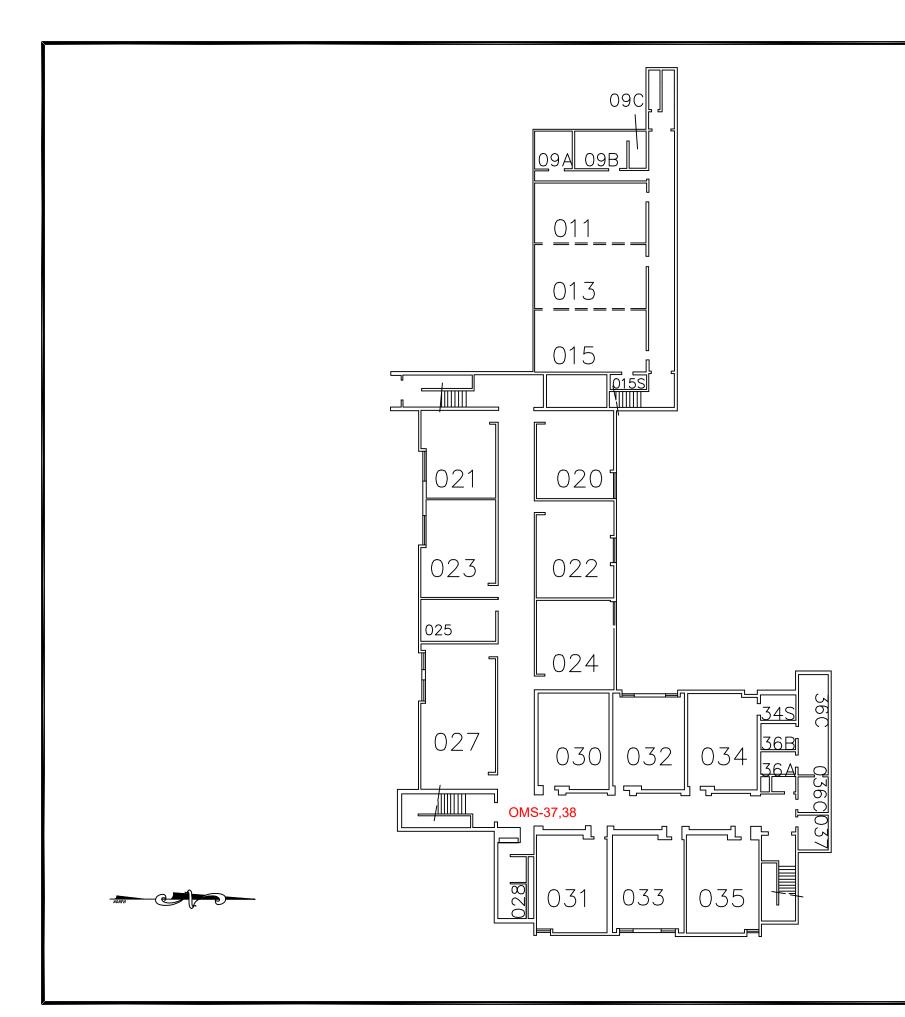
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj



NOTES

- 1. Drawing not to scale.
- Drawing adapted from "Oakland Middle School Floor Plan", provided by the client, dated 06/11/2019.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR
Date: 12-21-24	Date: 12-21-24	Date: 12-21-24

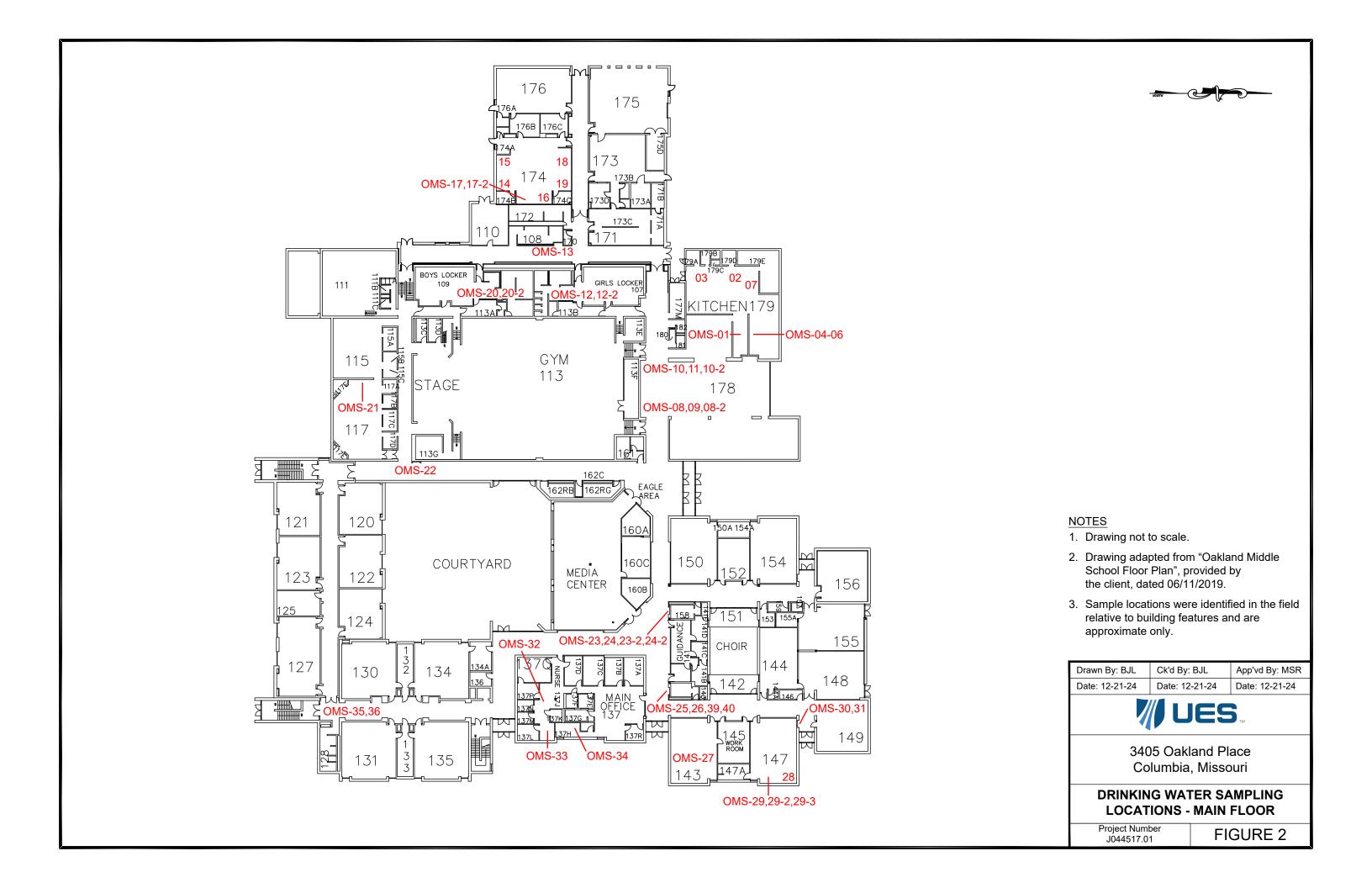


3405 Oakland Place Columbia, Missouri

DRINKING WATER SAMPLING LOCATIONS - GROUND FLOOR

Project Number J044517.01

FIGURE 1





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



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

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

Lead Risk Assessor Refresher

St. Louis, MO

Certificate #

CEET 325 3/6/2023

118035

Examination Date:

3/6/2023

CEUs: 0.8

)35

Rene Dulle, MBA, Director

Center for Environmental Education & Training

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

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

LEAD OCCUPATION LICENSE REGISTRATION

Issued to

Robert J. Haefner

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

Lead Risk Assessor Category of License

Issuance Date: Expiration Date:

License Number:

3/28/2023

3/30/2025

150330-300004672

POPULI SUPREN

Paula F. Nickelson

Acting Director

Department of Health and Senior Services

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

COLLEGE FOR PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

contact hours of training and successfully passed an examination has attended

Lead Inspector Refresher

St. Louis, MO

Certificate #

CEET 315

1/4/2022

118633

Examination Date:

CEUs: 0.8

1/4/2022

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

Christopher C. King PhD

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

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

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

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



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Oakland Middle School

Project Number: J044517.01

Address: 3405 Oakland Place

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
OMS-01	S	Kitchen - KF9	RJH - 1/11/24 - 17:25	RJH - 1/12/24 - 3:44
OMS-02	S	Kitchen - KF4	RJH - 1/11/24 - 17:25	RJH - 1/12/24 - 3:44
OMS-03	S	Kitchen - KF1	RJH - 1/11/24 -17:25	RJH - 1/12/24 - 3:44
OMS-04	S	Kitchen - KF 5/6 - Left	RJH - 1/11/24 - 17:25	RJH - 1/12/24 - 3:44
OMS-05	S	Kitchen - KF 5/6 - Center	RJH - 1/11/24 - 17:25	RJH - 1/12/24 - 3:44
OMS-06	S	Kitchen KF 5/6 - Right	RJH - 1/11/24 - 17:25	RJH - 1/12/24 - 3:44
OMS-07	ICE	Kitchen	SPL - 1/11/24 - 17:25	SPL - 1/12/24 - 3:44
OMS-08	BF	Hallway at Cafeteria/Gym - Left	SPL - 1/11/24 - 17:31	RJH - 1/12/24 - 3:47
OMS-09	WF	Hallway at Cafeteria/Gym - Left	SPL - 1/11/24 - 17:31	RJH - 1/12/24 - 3:47
OMS-10	BF	Hallway at Cafeteria/Gym - Right	RJH - 1/11/24 - 17:31	SPL - 1/12/24 - 3:47
OMS-11	WF	Hallway at Cafeteria/Gym - Right	RJH - 1/11/24 - 17:31	SPL - 1/12/24 - 3:47
OMS-12	WF	Girl's Locker Room	RJH - 1/11/24 - 17:35	RJH - 1/12/24 - 3:49
OMS-13	WF	Hallway at Room 108 - Left	RJH - 1/11/24 - 17:36	RJH - 1/12/24 - 3:51
OMS-14	S	Room 174 Blue - Left	SPL - 1/11/24 - 17:40	BJL - 1/12/24 - 3:54
OMS-15	S	Room 174 Blue - Right	SPL - 1/11/24 - 17:40	BJL - 1/12/24 - 3:54
OMS-16	S	Room 174 Green - Left	SPL - 1/11/24 - 17:40	SPL - 1/12/24 - 3:54
OMS-17	S	Room 174 Green - Right	SPL - 1/11/24 - 17:40	SPL - 1/12/24 - 3:54
OMS-18	S	Room 174 Red - Left	RJH - 1/11/24 - 17:40	RJH - 1/12/24 - 3:54
OMS-19	S	Room 174 Red - Right	RJH - 1/11/24 - 17:40	RJH - 1/12/24 - 3:54
OMS-20	WF	Boy's Locker Room	RJH - 1/11/24 - 17:45	RJH - 1/12/24 - 3:56
OMS-21	S	Room 117	RJH - 1/11/24 - 17:49	RJH - 1/12/24 - 3:57
OMS-22	WF	Hallway at Room 113G	RJH - 1/11/24 - 17:50	RJH - 1/12/24 - 3:58
OMS-23	WF	Hallway at Room 158 - Left	RJH - 1/11/24 - 17:52	RJH - 1/12/24 - 4:00
OMS-24	WF	Hallway at Room 158 - Right	SPL - 1/11/24 - 17:52	RJH - 1/12/24 - 4:00
OMS-25	WF	Hallway at Room 142 - Left	SPL - 1/11/24 - 17:53	SPL - 1/12/24 - 4:00

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Oakland Middle School

Project Number: J044517.01

Address: 3405 Oakland Place

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
OMS-26	WF	Hallway at Room 142 - Right	SPL - 1/11/24 - 17:53	SPL - 1/12/24 - 4:00
OMS-27	S	Room 143	RJH - 1/11/24 - 17:55	RJH - 1/12/24 - 4:02
OMS-28	S	Room 147 - Left	RJH - 1/11/24 - 17:56	RJH - 1/12/24 - 4:03
OMS-29	S	Room 147 - Right	SPL - 1/11/24 - 17:56	SPL - 1/12/24 - 4:03
OMS-30	BF	Hallway at Room 149	RJH - 1/11/24 - 17:57	SPL - 1/12/24 - 4:04
OMS-31	WF	Hallway at Room 149	RJH - 1/11/24 - 17:57	RJH - 1/12/24 - 4:04
OMS-32	S	Nurse at Room 137N	SPL - 1/11/24 - 18:01	RJH - 1/12/24 - 4:07
OMS-33	S	Nurse at Room 137 L	SPL - 1/11/24 - 18:01	BJL - 1/12/24 - 4:07
OMS-34	S	Kitchenette at Room 137H	RJH - 1/11/24 - 18:01	RJH - 1/12/24 - 4:07
OMS-35	WF	Hallway at Room 127 - Left	RJH - 1/11/24 - 18:07	RJH - 1/12/24 - 4:09
OMS-36	WF	Hallway at Room 127 - Right	RJH - 1/11/24 - 18:07	SPL - 1/12/24 - 4:09
OMS-37	WF	Hallway at Room 27 - Left	RJH - 1/11/24 -18:09	RJH - 1/12/24 - 4:10
OMS-38	WF	Hallway at Room 27 - Right	RJH - 1/11/24 - 18:09	SPL - 1/12/24 - 4:10
OMS-08-2	BF	Hallway at Cafeteria/Gym - Left	BJL - 6/25/24 - 23:55	BJL - 6/26/24 - 7:55
OMS-10-2	BF	Hallway at Cafeteria/Gym - Right	BJL - 6/25/24 - 23:56	BJL - 6/26/24 - 7:56
OMS-12-2	WF	Girl's Locker Room	BJL - 6/25/24 - 23:57	BJL - 6/26/24 - 7:57
OMS-17-2	S	Room 174 Green - Right	BJL - 6/26/24 - 24:00	BJL - 6/26/24 - 8:00
OMS-20-2	WF	Boy's Locker Room	BJL - 6/26/24 - 24:07	BJL - 6/26/24 - 8:07
OMS-23-2	WF	Hallway at Room 158 - Left	BJL - 6/26/24 - 24:11	BJL - 6/26/24 - 8:11
OMS-24-2	WF	Hallway at Room 158 - Right	BJL - 6/26/24 - 24:11	BJL - 6/26/24 - 8:11
OMS-29-2	S	Room 147 - Right	BJL - 6/26/24 - 24:13	BJL - 6/26/24 - 8:13
OMS-39	BF	Hallway at Room 142	BJL - 6/26/24 - 24:10	BJL - 6/26/24 - 8:10
OMS-40	WF	Hallway at Room 142	BJL - 6/26/24 - 24:10	BJL - 6/26/24 - 8:10
OMS-29-3	S	Room 147 - Right	CPS Staff - 9/18/24	BJL - 9/19/24 - 6:00

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



February 14, 2024

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

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

RE: J044517.01 **WorkOrder:** 24011314

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:12:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011314

Client Project: J044517.01

Report Date: 14-Feb-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: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24011314

Report Date: 14-Feb-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °C

Client Project: J044517.01

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-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: 24011314

Client Project: J044517.01 Report Date: 14-Feb-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										
24011314-001		NELAP	1.0	1.1	µg/L	1	02/02/2024 22:24	01/11/2024 7:25		
24011314-002		NELAP	1.0	1.1	µg/L	1	02/02/2024 22:53	01/11/2024 7:25		
24011314-003		NELAP	1.0	19.1	µg/L	1	02/02/2024 22:57	01/11/2024 7:26		
24011314-004		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 23:01	01/11/2024 7:40		
24011314-005		NELAP	1.0	2.7	μg/L	1	02/02/2024 23:22	01/12/2024 3:44		
24011314-006		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:06	01/12/2024 3:44		
24011314-007		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:10	01/12/2024 3:44		
24011314-008		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:14	01/12/2024 3:44		
24011314-009		NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:18	01/12/2024 3:44		
24011314-010	A OMS-06	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:47	01/12/2024 3:44		
24011314-011	A OMS-07	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 23:51	01/12/2024 3:44		
24011314-012	A OMS-08	NELAP	1.0	6.6	μg/L	1	02/02/2024 23:55	01/12/2024 3:47		
24011314-013	A OMS-09	NELAP	1.0	1.8	μg/L	1	02/02/2024 23:59	01/12/2024 3:47		
24011314-014	A OMS-10	NELAP	1.0	5.5	μg/L	1	02/03/2024 0:03	01/12/2024 3:47		
24011314-015	A OMS-11	NELAP	1.0	1.3	μg/L	1	02/03/2024 0:16	01/12/2024 3:47		
24011314-016	A OMS-12	NELAP	1.0	5.6	μg/L	1	02/03/2024 0:53	01/12/2024 3:49		
24011314-017	A OMS-13	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 0:57	01/12/2024 3:51		
24011314-018	A OMS-14	NELAP	1.0	1.9	μg/L	5	02/14/2024 7:18	01/12/2024 3:54		
24011314-019	A OMS-15	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 1:01	01/12/2024 3:54		
24011314-020	A OMS-16	NELAP	1.0	3.6	μg/L	5	02/14/2024 7:22	01/12/2024 3:54		
24011314-021	A OMS-17	NELAP	1.0	42.2	μg/L	5	02/14/2024 7:48	01/12/2024 3:54		
24011314-022	A OMS-18	NELAP	1.0	2.5	μg/L	1	02/03/2024 1:05	01/12/2024 3:54		
24011314-023	A OMS-19	NELAP	1.0	2.2	μg/L	5	02/14/2024 7:27	01/12/2024 3:54		
24011314-024	A OMS-20	NELAP	1.0	7.1	μg/L	1	02/03/2024 1:10	01/12/2024 3:56		
24011314-025	A OMS-21	NELAP	1.0	26.2	μg/L	1	02/03/2024 1:34	01/12/2024 3:57		
24011314-026	A OMS-22	NELAP	1.0	3.0	μg/L	1	02/03/2024 1:39	01/12/2024 3:58		
24011314-027	A OMS-23	NELAP	1.0	8.0	μg/L	5	02/14/2024 7:31	01/12/2024 4:00		
24011314-028	A OMS-24	NELAP	1.0	6.7	μg/L	5	02/14/2024 7:35	01/12/2024 4:00		
24011314-029	A OMS-25	NELAP	1.0	6.9	μg/L	5	02/14/2024 7:40	01/12/2024 4:00		
24011314-030	A OMS-26	NELAP	1.0	4.8	μg/L	5	02/14/2024 7:44	01/12/2024 4:00		
24011314-031	A OMS-27	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 1:43	01/12/2024 4:02		
24011314-032	A OMS-28	NELAP	1.0	2.5	μg/L	1	02/03/2024 1:47	01/12/2024 4:03		
24011314-033	A OMS-29	NELAP	1.0	5.3	μg/L	1	02/03/2024 2:03	01/12/2024 4:03		
24011314-034	A OMS-30	NELAP	1.0	4.4	μg/L	1	02/03/2024 1:51	01/12/2024 4:04		
24011314-035	A OMS-31	NELAP	1.0	1.9	μg/L	1	02/03/2024 1:55	01/12/2024 4:04		
24011314-036	A OMS-32	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 1:59	01/12/2024 4:07		
24011314-037	A OMS-33	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:28	01/12/2024 4:07		
24011314-038	A OMS-34	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:32	01/12/2024 4:07		
24011314-039	A OMS-35	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:37	01/12/2024 4:09		
24011314-040	A OMS-36	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:57	01/12/2024 4:09		
24011314-041	A OMS-37	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:41	01/12/2024 4:10		
24011314-042	A OMS-38	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:45	01/12/2024 4:10		
24011314-043	A LMS-01	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:49	01/12/2024 4:27		
24011314-044	A LMS-02	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 2:53	01/12/2024 4:28		
24011314-045	A LMS-03	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 3:30	01/12/2024 4:28		
24011314-046	A LMS-04	NELAP	1.0	< 1.0	μg/L	1	02/03/2024 3:35	01/12/2024 4:28		
24011314-047		NELAP	1.0	< 1.0	μg/L	1	02/03/2024 3:39	01/12/2024 4:28		
24011314-048		NELAP	1.0	< 1.0	µg/L	1	02/03/2024 3:43	01/12/2024 4:28		



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24011314-049	A LMS-07	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 3:47	01/12/2024 4:28
24011314-050	A LMS-08	NELAP	1.0	6.9	µg/L	1	02/03/2024 3:59	01/12/2024 4:31
24011314-051	A LMS-09	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 3:51	01/12/2024 4:31
24011314-052	A LMS-10	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 3:55	01/12/2024 4:32
24011314-053	A LMS-11	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:24	01/12/2024 4:32
24011314-054	A LMS-12	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:28	01/12/2024 4:33
24011314-055	A LMS-13	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:33	01/12/2024 4:33
24011314-056	A LMS-14	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:37	01/12/2024 4:34
24011314-057	A LMS-15	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:41	01/12/2024 4:34
24011314-058	A LMS-16	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:45	01/12/2024 4:35
24011314-059	A LMS-17	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:49	01/12/2024 4:35
24011314-060	A LMS-18	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 4:53	01/12/2024 4:37



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

Receiving Check List

http://www.teklabinc.com/

Work Order: 24011314 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 14-Feb-24 Carrier: Employee Received By: NR Completed by: Onton Oblacco Reviewed by: On: On: 19-Jan-24 19-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A 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 \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:05:42 AM

Yes

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

No 🗀

NA 🗹

pg. 19 of 74 Work order #240 11314

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

	•											-		<u> </u>						
Client:	Geotechnology,	LLC						_ s	Sam	ıple	s on	: 🗵	ICE	BLUE ICE N	IO ICE	VA_	°C	LTG#		2
Address:	11816 Lackland	Road						Preserved in: AB FIELD FOR LAB USE ONLY								il de la constant				
City / State									Lab Notes											
Contact:	Brad Lohrum		_ Phone	e: (314) 9	97-7440)	- I												Selvine or the
E-Mail:	blohrum@teamues.com		_ Fax:							4.0	omn				9 N				*.	-
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	s known to be involved in s known to be hazardous?		, a surcnarge No	wiii app	iy L	Yes	⊠ No	`												
Are there any requ	uired reporting limits to be	met on the real		is?. If y	es, plea	ase prov	vîde													
limits in the comm	nent section. 📋 Yes	No						1												
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	1-2 Day (100% Surcharge)					.] [_	. z	ue		Soil	a	良	Lead							
Other	3 Day (50% Surcharge)			UNPRES	NaOH	HCL	tainers OTHER NaHSO4	S.	≨ ľ	- K	Was	Wat	E200.8							
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001	JMS-67		+						X				X							
<u> </u>	JMS-68		1:20						X				X							1
(DQ)	A AB-14-2	-	7:40						X				X							
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pg. 20 of 74 Work order #24011314

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

		Geotechnology, L	1.0										—	<u> </u>				E 0132	IOF	BLI		- (250)	NO	<u> </u>		•	,	°C			
Client:		****																	ICE				NOI				*******	_	LTG	#	
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City / State	-	St. Louis, MO 63	140										-	La	bΝ	lote	S														3
Contact:	Brad L	***************************************			Pho			(314	997	1-14	40		- [Melia (A) j
E-Mail:	blohrur	n@teamues.com			Fax:		,						- [Clie	nt	Co	mm	ent	s:												<u></u>
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pg.21 of 74 Work order #24011314

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

E-Mail: blohrum@teamues.com Fax: Client Comments: Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes No were there any required reporting limits to be met on the requested analysis? If yes, please provide mits in the comment section. Yes No																											•	,, 0				
City / State / Zip St. Louis, MO 63146 Contact: Brad Lohrum Phone: (314) 597-7440 E-Mail: blohrum@iteenues.com Phone: (314) 597-7440 Fax: Client Comments: Tab Notes Client Comments: Lab Notes Client Comments: Lab Notes Client Comments: Client Comments: We these samples known to be inavoked in litigation? If yes, a surcharge will apply	Client:		Geotechnology, L	.LC											Sar	npl	es (on:	38	ICE	■ 8	LUE I	CE	® NC	ICE			(°C	LTG	#	-
City / State / Zip Contact: Brad Linum	Address:		11816 Lackland F	Road			****							-	Pre	ser	ved	l in	· 200	LAB	∞ F	ELD			_	FOR	LAB	USE	ONI	_Y		
Contact: Brad Lohrum Phone: (314) 997-7440 E-Mail: blohrum@learnues.com Fax: Client Comments:	City / State	/ Zip	St. Louis, MO 63	146						************				-	Lat	No	tes															
E-Mail: blohrun@teamues.com Fax: Client Comments: Client Comment	Contact:		ohrum			Pho	one	:	(31	4) 99	7-74	40		-																		
The these samples known to be involved in litigation? If yes, a surcharge will apply	E-Mail:	blohrur	m@teamues.com					•						- -	<u> </u>	- 4 0									**	× .	-	,				
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COUKS COUNTY CO	limits in the comm	ent sec	tion. 🗌 Yes 🍃	KN0										ı																		
Results Requested 1-2 Day (100% Surcharge) Billing Instructions # and Type of Containers Results Requested 1-2 Day (100% Surcharge) Billing Instructions Results Requested 1-2 Day (100% Surcharge) Results Requested Results Results Requested Results Re	Project	Name/	Number		S	ample (Coll	ect	or's	Na	me			Τ.	ľ	VIAT	RI)	(11	NDI	CATE	AN	ALYS	SIS F	EQU	EST	ED		***************************************
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pg. 22 of 74 Work order # 2401/314

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

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Client: Geotechnology, LLC Address: 11816 Lackland Road City / State / Zip Contact: Brad Lohrum E-Mail: Geotechnology, LLC 11816 Lackland Road St. Louis, MO 63146 blohrum@teamues.com					·····					*********	- 1		-						FIELD					OR I	LAB		E ON!		-HF		****		
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pg. 23 of 74 Work order # 24011314

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

Are these sample	Geotechnology, Li 11816 Lackland R St. Louis, MO 63' Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? uired reporting limits to be ment section. Yes	igation? If yes, a surch	harge will apply	1) 997-7440 Yes No	Preserv Lab Not Client Co	ed in: 🗏	ICE BLUEICE NO IC	FOR LAB USE ONLY
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pg. 24 of 74 Work order # 24011314

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

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Illinois

Illinois

Kansas

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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:

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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

EPA 600 4.1.4, 200.8 R5.4, ME Lead 24062353-001A SMS-01-2 24062353-002A SMS-02-2 24062353-003A SMS-58-2 24062353-005A SMS-60-2 24062353-006A SMS-61-2 24062353-007A SMS-62-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-019A MCE-88 24062353-020A RBH-103 24062353-020A RBH-103 24062353-021A RBH-105 24062353-024A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-030A CRE-71 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A OMS-11-2 24062353-030A OMS-11-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-23-2 24062353-040A OMS-39 24062353-040A OMS-39 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-20-2	ole ID	Certification Qua	l RL	Result	Units	DF	Date Analyzed	Date Collected
24062353-001A SMS-01-2 24062353-002A SMS-02-2 24062353-003A SMS-58-2 24062353-005A SMS-60-2 24062353-006A SMS-61-2 24062353-007A SMS-62-2 24062353-008A SMS-74-2 24062353-009A PKE-66-2 24062353-010A PKE-70-2 24062353-011A PKE-70-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-016A BRH-83 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-02A RBH-103 24062353-02A RBH-103 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-106 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-105 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-02A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-102 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103 24062353-03A RBH-103	METAI	LS BY ICPMS (TOTA	L)					
24062353-003A SMS-58-2 24062353-005A SMS-60-2 24062353-006A SMS-61-2 24062353-007A SMS-62-2 24062353-008A SMS-74-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-019A RBH-103 24062353-021A RBH-103 24062353-021A RBH-103 24062353-021A RBH-105 24062353-024A RBH-106 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-030A OMS-11-2 24062353-030A OMS-10-2 24062353-030A OMS-20-2 24062353-030A OMS-20-2 24062353-040A OMS-39 24062353-040A OMS-39 24062353-040A OMS-39 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	4.6	μg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-004A SMS-59-2 24062353-005A SMS-60-2 24062353-007A SMS-61-2 24062353-008A SMS-74-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-103 24062353-020A RBH-103 24062353-021A RBH-105 24062353-024A RBH-106 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-10-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-030A JMS-11-2 24062353-030A JMS-11-2 24062353-030A DMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-042A OMS-23-2 24062353-042A OMS-23-2 24062353-044A OMS-20-2 24062353-044A OMS-24-2		NELAP	1.0	3.5	μg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-005A SMS-60-2 24062353-006A SMS-61-2 24062353-007A SMS-62-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-019A MCE-88 24062353-020A RBH-103 24062353-020A RBH-103 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-106 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-106 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-026A NHE-16-2 24062353-026A NHE-16-2 24062353-030A SBE-02-2 24062353-030A OMS-11-2 24062353-030A OMS-11-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-10-2 24062353-030A OMS-20-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	7.5	μg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-006A SMS-61-2 24062353-007A SMS-62-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-016A BRH-83 24062353-019A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-020A RBH-103 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-106 24062353-020A RBH-105 24062353-020A RBH-105 24062353-020A RBH-106 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-020A RBH-10-2 24062353-030A RBH-10-2 240623		NELAP	1.0	3.3	μg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-007A SMS-62-2 24062353-008A SMS-74-2 24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-013A RBE-08-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-021A RBH-105 24062353-022A RBH-105 24062353-024A RBH-105 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-031A LSE-06-2 24062353-031A LSE-06-2 24062353-034A HHS-18-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-23-2		NELAP	1.0	8.7	μg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-008A SMS-74-2 24062353-010A PKE-66-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-016A MCE-09-2 24062353-019A MCE-87 24062353-019A MCE-88 24062353-020A RBH-103 24062353-021A RBH-103 24062353-021A RBH-105 24062353-024A RBH-105 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-030A BRE-02-2 24062353-031A LSE-06-2 24062353-034A HHS-18-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-20-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-040A OMS-23-2 24062353-041A OMS-24-2 24062353-041A OMS-24-2		NELAP	1.0	6.9	μg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-009A PKE-66-2 24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-016A BRH-83 24062353-018A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-025A CRE-70 24062353-026A CRE-71 24062353-029A RAC-08-2 24062353-030A BE-02-2 24062353-030A BE-02-2 24062353-030A BE-02-2 24062353-035A OMS-11-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-12-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-24-2 24062353-043A OMS-24-2		NELAP	1.0	7.4	μg/L	1	07/08/2024 22:34	06/26/2024 15:15
24062353-010A PKE-67-2 24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-033A EFS-01-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-20-2 24062353-039A OMS-20-2 24062353-041A OMS-40 24062353-041A OMS-23-2 24062353-041A OMS-23-2 24062353-041A OMS-24-2		NELAP	1.0	1.9	μg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-011A PKE-70-2 24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-020A RBH-103 24062353-021A RBH-103 24062353-022A RBH-104 24062353-024A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-026A RBC-08-2 24062353-030A RBC-08-8 0 MRS-08-2 24062353-030A RBC-08-2 24062353-030A RBC-08-2 24062353-030A RBC-08-8 0 MS-08-2 24062353-030A OMS-08-2 24062353-030A OMS-08-2 24062353-030A OMS-08-2 24062353-030A OMS-20-2 24062353-040A OMS-39 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-23-2 24062353-040A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-012A RBE-08-2 24062353-013A RBE-11-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-020A RBH-103 24062353-021A RBH-103 24062353-022A RBH-104 24062353-022A RBH-105 24062353-02A RBH-105 24062353-02A RBH-106 24062353-02A NHE-10-2 24062353-02A NHE-16-2 24062353-02A CRE-70 24062353-02A RBC-08-2 24062353-03A SBE-02-2 24062353-03A SBE-02-2 24062353-03A EFS-01-2 24062353-03A EFS-01-2 24062353-03A DMS-18-2 24062353-03A OMS-10-2 24062353-03A OMS-10-2 24062353-03A OMS-10-2 24062353-03A OMS-17-2 24062353-03A OMS-17-2 24062353-03A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-23-2 24062353-041A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-013A RBE-11-2 24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-022A RBH-105 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-026A CRE-70 24062353-028A CRE-71 24062353-028A CRE-71 24062353-030A SBE-02-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-12-2 24062353-039A OMS-12-2 24062353-040A OMS-39 24062353-041A OMS-23-2 24062353-041A OMS-24-2		NELAP	1.0	2.2	μg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-014A FES-52-2 24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-019A MCE-87 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-026A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-23-2 24062353-041A OMS-23-2 24062353-041A OMS-24-2		NELAP	1.0	1.3	μg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-015A BRH-82 24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-10-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A BE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	1.6	μg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-10-2 24062353-027A CRE-70 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-031A LSE-06-2 24062353-035A OMS-11-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-12-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-016A BRH-83 24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-10-2 24062353-027A CRE-70 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-031A LSE-06-2 24062353-035A OMS-11-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-17-2 24062353-039A OMS-20-2 24062353-041A OMS-40 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-017A MCE-09-2 24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-033A EFS-01-2 24062353-035A OMS-11-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-039A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-018A MCE-87 24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-026A CRE-70 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-031A LSE-06-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-039A OMS-17-2 24062353-039A OMS-20-2 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-042A OMS-23-2 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	1.3	μg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-019A MCE-88 24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-025A NHE-10-2 24062353-025A NHE-16-2 24062353-026A NHE-16-2 24062353-026A NHE-16-2 24062353-026A NHE-16-2 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-034A HHS-18-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-20-2 24062353-041A OMS-23-2 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-020A RBH-30-2 24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-035A OMS-08-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-23-2 24062353-042A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-021A RBH-103 24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-038A OMS-10-2 24062353-039A OMS-17-2 24062353-039A OMS-20-2 24062353-041A OMS-39 24062353-041A OMS-23-2 24062353-043A OMS-23-2 24062353-043A OMS-23-2		NELAP	1.0	12.4	μg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-022A RBH-104 24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-035A OMS-11-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	1.9	μg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-023A RBH-105 24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-043A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	3.6	μg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-024A RBH-106 24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-025A NHE-10-2 24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-026A NHE-16-2 24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-036A OMS-10-2 24062353-038A OMS-17-2 24062353-039A OMS-17-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-027A CRE-70 24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	3.7	μg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-028A CRE-71 24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-029A RAC-08-2 24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-030A SBE-02-2 24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	13.2	μg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-031A LSE-06-2 24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	4.6	μg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-032A JMS-11-2 24062353-033A EFS-01-2 24062353-035A OMS-08-2 24062353-035A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	2.1	μg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-033A EFS-01-2 24062353-034A HHS-18-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:04	06/26/2024 19:07
24062353-034A HHS-18-2 24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-035A OMS-08-2 24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	2.7	µg/L	1	07/03/2024 20:12	06/26/2024 19:32
24062353-036A OMS-10-2 24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-037A OMS-12-2 24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 12:33	06/26/2024 19:56
24062353-038A OMS-17-2 24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	1.1	μg/L μg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-039A OMS-20-2 24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0		1	07/03/2024 20:48	06/26/2024 20:00
24062353-040A OMS-39 24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:48	06/26/2024 20:07
24062353-041A OMS-40 24062353-042A OMS-23-2 24062353-043A OMS-24-2			1.0		μg/L		07/03/2024 20:56	06/26/2024 20:10
24062353-042A OMS-23-2 24062353-043A OMS-24-2		NELAP NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-043A OMS-24-2				< 1.0	μg/L	1	07/05/2024 20:59	06/26/2024 20:11
		NELAP	1.0	< 1.0	μg/L	1		
24002333-044A UIVIS-29-2		NELAP NELAD	1.0	< 1.0	μg/L	1	07/03/2024 21:25 07/03/2024 21:29	06/26/2024 20:11 06/26/2024 20:13
24062353 045A EDE 25 2		NELAP	1.0	5.6	μg/L	1		
24062353-045A EBE-35-3		NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046A EBE-63		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047A BHS-83-2 24062353-048A BHS-122-2		NELAP NELAP	1.0 1.0	17.6 4.3	μg/L μg/L	1 1	07/08/2024 23:07 07/03/2024 21:51	06/26/2024 21:10 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 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24062353-049	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053	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	6A 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? **~** 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. of Work order # 24062353 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Contact: E-Mail: Are these samples Are these samples Are there any requ	known to be hazardous?	Phone Fax: tigation? If yes, a surcharge Yes No met on the requested analys	will appl		Yes D	No	Pi Li Cii	res ab	erve Note	ed ir	n: 🗵	LAB	BLUEICE MOICE NA °C LTG# B FIELD FOR LAB USE ONLY COUNTER
	ent section.	No Sample Co	lector'	s Nan	ne			M	ATF	RIX			INDICATE ANALYSIS REQUESTED
Results	4517.01	Brad Le			f Contai	ners	Ag	Drinki	ي	Speci	Grou	DW - L	
Standard [1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		HNO3 UNPRES	H2SO NaOI	MeOH	OTHER	Aqueous	Drinking Water	Soil	Special Waste	Groundwater	Lead E200.8	
Lab Use Only	Sample Identification	Date/Time Sampled	ιχ, ω ω	4 4	+ ;	2 7	1	7		िं	"	0.8	
246 (333-10i	SMS-01-Z	6/26/24 307	1					X				X	
-005	02-2	3:08	1					X				X	
-003	58-2	3:11	1					XI		1		X	
034	59-2	3:12	1					X				X	
-005	60-2	3:13	1					XI.				X	
-004	61-2	3:14	1					X				X	
~007	62-2	3:15	1					X]				X	
004	1-74-2	3:18	1					X.				X	
009	PKE-66-2	3:52	1					X				X	
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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

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Client:	Geotechnology, L	LC							-						ICE	BLUE K	CE [MC					C,	LTG	#	
Address:	11816 Lackland R								P	re	ser	vec	d in	: 💹	LAB	FIELD			Ī	OR I	LAB	<u>USE</u>	ONL	<u>.Y</u>		
City / State		146							L	.ab	No	ote:	s													
Contact:	Brad Lohrum	Phone	e:	(314	997	7-744()																			
E-Mail:	blohrum@teamues.com	Fax:							CI	ier	nt C	Con	nmo	ent	s:	·		, and all all all all all all all all all al	A CONTRACTOR OF THE PARTY OF TH	%===\(\text{\\cite\exitin\exiti		N. Const.		(2-mg)(0)	Parameter and	* ***
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•	s known to be hazardous?																									
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~012	RBE-08-2	4:06	1							X					X				7974							
-013	RBE-11-2	4:67	1							Χ					X											
-014	FES-52-2	4:16	1							X					Х		100000000000000000000000000000000000000									
-015	BRH-82	4:33	1							X					X			- The second sec								
-3/6	RRH - 83	4:36	1				****			X					Х											
-017	MCE -09-2	4:51	1							X					X											
-014	MAF - 87	4:54	1							X					X											
-619	MCF- 88	1	1							X					X											
-020	RBH-30-2	5.17	1							X					X											
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CHAIN OF CUSTODY pg. \leq of ℓ Work order # 29062353

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 o	n:		ICE	BL	UE ICE		NO I	CE				C	LTG	#	<u> </u>	
Address:	11816 Lackland R	oad						············	P	res	erv	ed	in:		LAB	FIE	LD			E	OR L	.AB	<u>USE</u>	ON	<u>.Y</u>			
City / State	/ Zip St. Louis, MO 631	46							L	ab	No	tes																
Contact:	Brad Lohrum	Phone	:	(314	4) 997	7-7440)																					
E-Mail:	blohrum@teamues.com	Fax:							CI	ien	t C	om	me	nts	:				,									,,,
Are these samples	known to be hazardous?					Yes		No																				
Are there any requirements in the comm	ired reporting limits to be neent section.						vide		L																			
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J04	4517.01	Brad Lo							֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֡֓	밁		ļ	ပ္ခ	ଦୁ	DW-											***************************************		
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-035	NHE-10-2	5:44	1							X					X										***			
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CHAIN OF CUSTODY pg. 4 of 6 Work order # 24062353

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

Client:	Geotechnology,	LLC						5	San	ıple	es o	n:	100	ICE	BLUE ICE M NO ICE	°C LTG#
Address:	11816 Lackland	Road				***************************************		F	res	sen	ved	in:		LAB	FIELD FOR	LAB USE ONLY
City / State	/ Zip St. Louis, MO 6	3146						L	.ab	No	tes	;				
Contact:	Brad Lohrum	Phon	e:	(314) 997-	7440		- 2								
E-Mail:	blohrum@teamues.com	Fax:						- C	lier	it C	om	me	nts	:		
Are these sample	s known to be involved in	litigation? If yes, a surcharge	will a	ply		Yes	No.	,								
	s known to be hazardous?						ř.,									
are there any requirits in the comm	uired reporting limits to be nent section.	met on the requested analys X No	sis?. If	yes, p	please	provi	de	İ								
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X Standard	1-2 Day (100% Surcharge)	Distance in the control of the contr	1	, _	ı	7	z o	Aqueous	ing	Soil	Sludge	iai V	ndv	Lead		
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Lab Use Only	Sample Identification	Date/Time Sampled	S		4		Σ Z		er.			íð.	÷	0.8		
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-632	JMS-11-2	7:07	1						X					X		
-033	EFS-01-2	7:19	1						X					X		
-034	HHS-18-2	7:32	- 1						Х					X		
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-036	OMS-10-Z	7:56	. 1						Х					Х		
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CHAIN OF CUSTODY pg. 5 of 6 Work order # 24062353

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

Client:	Geotechnology, L	LC									Sar	npl	es	on:	500	ICE	80	BL	JE IC	E	∭ NC	ICE	28. - * 21. 2				°C	LT	G# _		
Address:	11816 Lackland F	Road			·····											LAB								<u>R L</u>	AB	<u>USF</u>	E ON	<u>ILY</u>			:
City / State	/ Zip St. Louis, MO 63	146									Lab	No	ote	s																	•
Contact:	Brad Lohrum	Phone	<u> </u>	(;	314)	997-	744	10																							i i
E-Mail:	blohrum@teamues.com	Fax:								- 0	Clie	nt (Cor	nme	ent	s:							49 () ()					-340		· · · · · · · · · · · · · · · · · · ·	S
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Lab Use Only	Sample Identification	Date/Time Sampled	Š			4		4	~	L	<u>e</u>			ñ	~~	0.8								· · · · · · · · · ·	-	<u> </u>	 				
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-045	EBE-35-3	8:39	1								X					X															
-046	EBE-63	8:43	1								X					X															
-047	BHS -83-2	9:10	1								X					X														***	
-048	BHS-122-2	9:20	1								X					X															
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CHAIN OF CUSTODY pg. 6 of 6

Work order # 2406 2353

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

Client:	Geotechnology, L	LC					S	am	ple	s on		ICE	BLUE ICI	NO	ICE		°c	: 1	TG#	
Address:	11816 Lackland R	Road					Pi	res	erv	ed ii	n: 🗵	LAB	FIELD		FO	RLAB	USE (ONL.Y	, 	\$ \$
City / State	/ Zip St. Louis, MO 63	146					Lá	ab i	Not	es										:
Contact:	Brad Lohrum	Phone	(31	4) 997	-7440															1
E-Mail:	blohrum@teamues.com	Fax:					Cli	en	t Co	mm	ent	s:		· · · · · · · · · · · · · · · · · · ·	Mary on Miller Son		<u> </u>			
\re these samples	s known to be involved in lit	tigation? If yes, a surcharge	vill apply		Yes	X No	1													
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re there any requirements in the comm	uired reporting limits to be reent section.	net on the requested analysi No	s?. If yes,	, pleas	e provid	e														
Project	Name/Number	Sample Col	ector's	Nam	ie		┰┖╌	M	ΑŤ	RIX		Т	IN	DICATE	ANAL'	SIS R	EQUE	STE)	
· ·	4517.01	Brad Lo						,	T	1.0		ΝQ								
	s Requested	Billing Instructions	#and 1	ype of	f Conta	iners	Aqueous	<u> </u>	L	Special Waste	Groundwater	\ - 								
X Standard	1-2 Day (100% Surcharge)	Dining instructions	c			z o	Aqueous	<u></u>	Soil	I i	Į₫	Lead								***
Other	3 Day (50% Surcharge)		HNO3 UNPRES	280	HCL	OTHER Namso4	Sus	<u>۶</u>	_	Vas	vate	E200.8							-	
Lab Use Only	Sample Identification	Date/Time Sampled	3 ES	4		<u>ج</u> 4	1	\$		e e	14	0.8								
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Bottle Order:





September 30, 2024

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

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

RE: J044517.01 **WorkOrder:** 24091622

Dear Brad Lohrum:

TEKLAB, INC received 7 samples on 9/20/2024 1:13:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Patrick Riley

Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com

Illinois 100226 Illinois 1004652024-2 Kansas E-10374

05002 Louisiana Louisiana 05003 Oklahoma 9978



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24091622

Client Project: J044517.01

Report Date: 30-Sep-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: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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: 24091622

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

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24091622

Report Date: 30-Sep-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °C

Client Project: J044517.01

Locations

	Collinsville		Springfield	Kansas City					
Address	Address 5445 Horseshoe Lake Road		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 Ema		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: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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	12/31/2024	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: 24091622

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

Matrix: DRINKING WATER

Sample ID	Client Sample ID	RL	Result	Units	DF	Date Analyzed Date Collected						
EPA 600 4.1.4, Lead	200.8 R5.4, META	LS BY ICPMS (TOTAL)										
24091622-001A	SMS-58-3	NELAP	1.0	13.5	µg/L	1	09/26/2024 12:20	09/19/2024 5:37				
24091622-002A	SMS-60-3	NELAP	1.0	12.8	µg/L	1	09/26/2024 12:24	09/19/2024 5:39				
24091622-003A	SMS-61-3	NELAP	1.0	2.7	µg/L	1	09/26/2024 12:28	09/19/2024 5:39				
24091622-004A	SMS-62-3	NELAP	1.0	3.7	µg/L	1	09/26/2024 12:57	09/19/2024 5:40				
24091622-005A	OMS-29-3	NELAP	1.0	15.8	μg/L	1	09/26/2024 12:32	09/19/2024 6:00				
24091622-006A	EFS-01-3	NELAP	1.0	1.9	µg/L	1	09/26/2024 13:01	09/19/2024 6:13				
24091622-007A	RAC-08-3	NELAP	1.0	< 1.0	µg/L	1	09/26/2024 13:05	09/19/2024 6:27				



Receiving Check List

http://www.teklabinc.com/

Work Order: 24091622 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 30-Sep-24 Carrier: John Duarte Received By: NR Completed by: moor Ollauc Reviewed by: On: On: 20-Sep-24 20-Sep-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No \square 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: No 🗌 Yes 🗸 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials ✓ No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗸 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 9/20/2024 1:42:56 PM

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

CHAIN OF CUSTODY pg. of Work order # 2409/622

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

Client:	Geotechnology, L	Geotechnology, LLC, dba UES											Samples on: DICE BLUE ICE NO ICE										M/K °C LTG#							
Address:	11816 Lackland F	Road								Preserved in: ALAB FIELD FOR LAB USE ONLY													A CONTRACTOR OF THE CONTRACTOR							
City / State	/ Zip St. Louis, MO 63	146								•	Lab				•												Ç			
Contact:	Brad Lohrum	FIIOITE.																									Á			
E-Mail:	blohrum@teamues.com									Client Comments:														***********						
Are these samples	s known to be involved in l	itigation? If yes, a surcharge	will :	appl	y		Yes	X	No	1																				
	s known to be hazardous?					•		٠,		ı																				
Are there any requirements in the comm	uired reporting limits to be nent section. Yes 》	met on the requested analys No	IS?.	it ye	s, p	ieas	e pro	viae		ı																				
Project	Name/Number	Sample Co	lec	tor	s N	lan	1e		**********	┪	ľ	VΙΑ	TR	X			INDICAT	E A	VAL	/SIS	RE	QUI	EST	ED		## CHICKEN				
.104	14517.01	Brad Lo	hrı	ım							D			S		- Wd														
Result	s Requested	Billing Instructions				pe o	f Cor	ıtain	ers	l∂	Drinking Water		2	Special Waste	Groundwater	-	***************************************			-					ĺ					
Standard	1-2 Day (100% Surcharge)	Diming mondonone	Ē	_	7	ī		, z	lo	Aqueous	ng	Soil	Sludge	ial V	φ	Lead	***************************************			S. P. Lander S. Lander L.					İ					
Other	3 Day (50% Surcharge)		复	HNO3	la O	250	된	HSC	ᆵ	SD	Wat		e	Vast	vate	E200.8	***************************************	7	TE	'K	T	À	B							
Lab Use Only	Sample Identification	Date/Time Sampled	Š	ω.	-	4		4			e			è	7	0.8	-					(**************************************			-					
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	RAC-08-3	6:21	1				Т			Π	X			Γ		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.