

DRINKING WATER SAMPLING REPORT

Carl. W Goetz Elementary School

835 Patterson Road Jackson, New Jersey 08527

April 25, 2022 Partner Project No. 21-327918.1



Prepared for

Jackson Township Board of Education 151 Don Connor Boulevard Jackson, New Jersey 08527



April 25, 2022

Mr. Anthony Bruno Jackson Township Board of Education 151 Don Connor Boulevard Jackson, New Jersey 08527

Subject: Drinking Water Sampling Report Jackson Township Board of Education Carl W. Goetz Elementary School Jackson, New Jersey 08527 Partner Project 21-327918.1

Dear Mr. Bruno:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Drinking Water Sampling* conducted at the abovementioned address (the "subject property"). This sampling event was performed in general conformance with the scope and limitations as detailed in our fee proposal. This inspection included a site reconnaissance as well as sampling and analysis. An assessment was made, conclusions stated, and recommendations outlined, as required.

We appreciate the opportunity to provide environmental services to the Jackson Township Board of Education. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (908) 497-8904 or via e-mail at dbracey@partneresi.com.

Sincerely,

Neal the

Dan Bracey, CSP, CHMM Senior Project Manager Industrial Hygiene & Health and Safety Services

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APPENDICES

- Appendix A Laboratory Analysis and Chain-of-Custody
- Appendix B Sampling Plan
- Appendix C Quality Assurance Project Plan



Executive Summary

Partner Engineering and Science, Inc. (Partner) collected drinking water samples for Jackson Township Board of Education at Carl W. Goetz Elementary School on February 26, 2022. Samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the Safe Drinking Water Act of 1974.

The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the building. The samples collected were analyzed by Alpha Analytical Labs located in Mahwah, New Jersey for analysis of lead content using USEPA Method 200.8 for lead in drinking water. The action level for lead has been set at 15 parts per billion (ppb). According to the USEPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

Sample analysis indicated that measured lead concentrations did exceed the USEPA Action Level of 15 ppb for lead at Carl W. Goetz Elementary School. Specifically, water from the following outlets had exceedances:

- CG-POE, initial draw, 30.14 ppb
- CG-POE, Second draw, 68.00 ppb
- CG-S-13, initial draw, 20.45 ppb
- CG-WF-14, initial draw, 34.14 ppb
- CG-WF-15, initial draw, 22.90 ppb
- CG-WF-18, initial draw, 92.85 ppb
- CG-WF-18-F, Second draw, 522.0ppb
- CG-WF-20, initial draw, 137.2 ppb
- CG-WF-20-F, Second draw, 293.8 ppb
- CG-WF-24, initial draw, 64.18 ppb
- CG-WF-33, initial draw, 72.97 ppb
- CG-WF-33-F, Second draw, 163.4 ppb
- CG-WF-34, initial draw, 15.15 ppb
- CG-WF-34-F, Second draw, 152.8 ppb

Based on the above referenced sample analytical results, Partner recommends the following actions:

• For the initial point of entry outlet and sinks exceeding the USEPA Action Level, these outlets should be labelled as "Do Not Drink – Safe for Handwashing Only".



- A flushing program can be implemented at the point of entry outlet, with either manual or automatic flushing.
- Remove drinking water outlets of concern from service.
- Conduct an investigation into the drinking water outlet of concern and replace any potential leadleaching fixtures or equipment, such as fixtures and associated piping, that may be contributing to dissolved lead in drinking water.



1.0 INTRODUCTION

1.1 **Property Description**

Address(s):	Carl W. Goetz Elementary School – 835 Patterson Road, Jackson
Nature of Use:	School
Walk-Through Inspector:	Angelica Rosaperez
Walk-Through Date:	January 12, 2022
Sampling Conducted By:	Angelica Rosaperez
	Anthony Mercogliano
Sampling Date:	February 26, 2022

1.2 Purpose and Scope

The purpose of this drinking water sampling event was to sample and analyze drinking water for a determination of lead content for comparison with the USEPA Action Level as defined by the National Primary Drinking Water Regulations (NPDWR - 40 CFR Chapter I, Part 141), in addition to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools". The NPDW set a Maximum Contaminant Level Goal (MCLG) for each listed contaminant, which identifies a level of that contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals. The MCLG for lead has been set at zero (0) ppb. Since lead contamination generally occurs from corrosion of onsite lead pipes, or lead-based solder on fittings and fixtures, it cannot be directly detected or removed by the municipal water system. Instead, the USEPA is requiring municipal water systems to control the corrosiveness of their water if the level of lead at the tap exceeds an Action Level.

The action level for lead has been set at 15 parts per billion (ppb). According to the NPDWR Lead and Copper Rule (LCR), given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.



2.0 METHODOLOGY

Select drinking water samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the LCR Monitoring requirements for lead in tap water (40 CFR Part 141, Subpart I, § 141.86(b)). Sampling consisted of collecting a one liter (L) first draw sample from a drinking water outlet that had been stagnant for at least eight (8) hours in a bottle with an appropriate preservative. Partner made a reasonable effort to determine whether the stagnation preconditions were able to be met prior to conducting sampling. A second-draw sample was collected minutes after the first-draw, in order to determine whether lead was being provided via the service line. Second-draw samples were only analyzed if the first-draw sample exceeded the USEPA Action Level of 15 ppb. Sample bottles were provided by Alpha Analytical Labs located in Mahwah, New Jersey with an appropriate preservative lead in drinking water sampling. After collection, sample bottles were labeled with a unique identifier and transferred under chain of custody to by Alpha Analytical Labs located in Mahwah, New Jersey for analysis by USEPA Method 200.8. The laboratory results and chain of custody are contained in **Appendix A**.



3.0 BACKGROUND

Partner collected a total of 70 drinking water samples from Carl W. Goetz Elementary School on March 2017. A total of 54 samples were analyzed. Following collection, samples were sent to SGS Accutest in Dayton, New Jersey for analysis of lead content using USEPA Method 200.8 for lead in drinking water. The results of the analytical data revealed that nine (9) samples exceeded the USEPA Action level of 15 ppb for lead.



4.0 ANALYTICAL RESULTS

During the course of this site visit, Partner collected water samples at 30 locations. Partner did not attempt to disassemble mechanical equipment, open plumbing pipe chases, or assess materials within wall voids.

Sample names and their respective locations were updated from the 2017 sampling event based on relevant known plumbing information as provided by the Jackson Township Board of Education and the site guide.

Partner attempted to collect samples from the following outlets; however, based upon the condition of the outlet and recommendations from the site guide, a sample could not be collected at the following locations:

• CG-WF-01, CG-WF-02, CG-WF-03, CG-WF-06, CG-WF-19, CG-WF-35, CG-WF-36

A total of 60 drinking water samples were collected from Carl W. Goetz Elementary School on February 26, 2022. A total of 39 samples were analyzed. The results are listed in Table 1 below.

	Table 1	
	Analytical Results Summary	
	Carl W. Goetz Elementary School	
	February 26, 2022	
Sample Name	Location	Results (ppb)
CG-POE	Boiler Room	30.14
CG-POE-F	Boiler Room	68.00
CG-WF-04	Near 206	ND
CG-BF-05	Near 206	ND
CG-S-07	Faculty Lounge	3.175
CG-S-08	Nurse	9.716
CG-S-09	Nurse	2.746
CG-S-10	Main Office	4.258
CG-S-11	Classroom 112	3.903
CG-WF-12	Classroom 112	ND
CG-S-13	Classroom 112-BR	20.45
CG-S-13-F	Classroom 112-BR	6.337
CG-WF-14	Across Rm 113	34.14
CG-WF-14-F	Across Rm 113	7.737
CG-WF-15	Across Rm 113	22.90
CG-WF-15-F	Across Rm 113	4.688
CG-WF-16	Next to Room 402	2.675

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	Table 1	
	Analytical Results Summary	
	Carl W. Goetz Elementary School	
	February 26, 2022	
Sample Name	Location	Results (ppb
CG-WF-17	Outside 400	9.874
CG-WF-18	Room 502	92.85
CG-WF-18-F	Room 502	522.0
CG-WF-20	Near Cafeteria	137.2
CG-WF-20-F	Near Cafeteria	293.8
CG-S-21	Kitchen	7.189
CG-S-22	Kitchen	12.61
CG-S-23	Kitchen	8.537
CG-WF-24	Next to Room 501	64.18
CG-WF-24-F	Next to Room 501	11.07
CG-S-25	Foods Lab	ND
CG-S-26	Foods Lab	2.500
CG-S-27	Foods Lab	2.958
CG-S-28	Foods Lab	1.894
CG-S-29	Foods Lab	4.094
CG-S-30	Foods Lab	3.329
CG-WF-31	Classroom 310	ND
CG-BF-32	Classroom 310	ND
CG-WF-33	Room 302	79.27
CG-WF-33-F	Room 302	163.4
CG-WF-34	Trailer J	15.15
CG-WF-34-F	Trailer J	152.8

NOTES

ND= Not detected. Lead levels not detected at the reporting limit (0.3430 ppb) 1 ppb = 1 ug/L

BOLD = Exceedances above USEPA Action Level 15 ppb



5.0 CONCLUSION

Sample analysis indicated that measured lead concentrations did exceed the USEPA Action Level of 15 ppb for lead at Elms Elementary School. Specifically, water from the following outlets had exceedances:

- CG-POE, initial draw, 30.14 ppb
- CG-POE, Second draw, 68.00 ppb
- CG-S-13, initial draw, 20.45 ppb
- CG-WF-14, initial draw, 34.14 ppb
- CG-WF-15, initial draw, 22.90 ppb
- CG-WF-18, initial draw, 92.85 ppb
- CG-WF-18-F, Second draw, 522.0ppb
- CG-WF-20, initial draw, 137.2 ppb
- CG-WF-20-F, Second draw, 293.8 ppb
- CG-WF-24, initial draw, 64.18 ppb
- CG-WF-33, initial draw, 72.97 ppb
- CG-WF-33-F, Second draw, 163.4 ppb
- CG-WF-34, initial draw, 15.15 ppb
- CG-WF-34-F, Second draw, 152.8 ppb



6.0 **RECOMMENDATIONS**

Based on the above referenced sample analytical results, Partner recommends the following actions:

- For the initial point of entry outlet exceeding the USEPA Action Level, this outlet should be labelled as "Do Not Drink Safe for Handwashing Only".
- A flushing program can be implemented at the point of entry outlet, with either manual or automatic flushing.
- Remove drinking water outlets of concern from service.
- Conduct an investigation into the drinking water outlet of concern and replace any potential leadleaching fixtures or equipment, such as fixtures and associated piping, that may be contributing to dissolved lead in drinking water.

Additional control technologies may be utilized to reduce lead content in drinking water, including, but not limited to onsite water treatment and filtration. All response actions should be conducted in according with industry, local, state and federal guidelines and/or requirements

In the event the remedial action involves replacing the fixture/associated piping or installing a new fixture, Jackson Township BOE should conduct sampling for lead in drinking water to ensure lead levels are below the action level prior to opening up the fixture for use. Additionally, sampling of all drinking water outlets must be conducted every third school year beginning with the 2021-2022 school year.

Flushing involves opening suspect taps every morning before the facility opens and letting the water run to remove water that has been standing in the interior pipes and/or the outlets. All flushing should be recorded in a log submitted daily to the head of maintenance/facilities. The faucet should be opened and the water should run for 30 seconds to one minute, or until cold.

A filtration device, or point-of-use (POU) device can be relatively inexpensive (\$65 to \$250) or expensive (ranging from \$250 to \$500), their effectiveness varies, and they may be vulnerable to vandalism. They also require a maintenance program for regular upkeep to ensure effectiveness. Cartridge filter units need to be replaced periodically to remain effective. NSF International, an independent, third-party certification organization, has a testing program to evaluate the performance of POU devices for lead removal (NSF Standard 53). Before purchasing any device, ask the manufacturer for proof of NSF approval and the Performance Data Sheet, or check by visiting the NSF Web site at: http://www.nsf.org/business/search_listings/index/asp

Consult NSF Standard 61 (Sections 4, 8 and 9) before buying any replacement products. This standard will provide you with information on plumbing products that are designed to minimize lead leaching. Before you purchase any brass plumbing products, request information regarding compliance with this standard.



7.0 LIMITATIONS

Partner subcontracted with Alpha Analytical who performed the lead analysis. No warranties expressed or implied, are made by Partner or its subcontractor Alpha Analytical or their employees as to the use of any information, apparatus, product or process disclosed in this report. Every reasonable effort has been made to assure correctness.

State-of-the-art practices have been employed to perform this inspection. No demolition or product research was performed in attempts to reveal material compositions. The services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles/practices. These services are designed to provide an analytical tool to assist the client. Partner and its subcontractors and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to lead and/or lead contamination regardless of the actions taken by the inspection team or the client.



8.0 SIGNATURES OF PROFESSIONALS

Partner performed lead-in-drinking water sampling at the Jackson Township Board of Education properties, Ocean County, New Jersey in general conformance with the scope and limitations of the protocol stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

Prepared By:

Partner Engineering and Science, Inc.

Angelico Rosague

Angelica Rosaperez Assistant Project Manager

Reviewed by:

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Daniel Bracey, CSP, CHMM Senior Project Manager





APPENDIX A: LABORATORY ANALYSIS AND CHAIN OF CUSTODY



ANALYTICAL REPORT

Lab Number:	L2210401
Client:	Partner Engineering & Science, Inc. 611 Industrial Way West Eatontown, NJ 07724
ATTN:	Dan Bracey
Phone:	(908) 497-8904
Project Name:	JACKSON LIDW-CARL W. GOETZ
Project Number:	21-327918.1
Report Date:	03/21/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



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L2210401 03/21/22	Receive Date	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22
Lab Number: Report Date:	Collection Date/Time	02/26/22 11:48	02/26/22 11:49	02/26/22 12:28	02/26/22 12:29	02/26/22 12:28	02/26/22 12:29	02/26/22 12:34	02/26/22 12:35	02/26/22 12:37	02/26/22 12:38	02/26/22 12:39	02/26/22 12:40	02/26/22 12:41	02/26/22 12:42	02/26/22 12:44	02/26/22 12:45	02/26/22 12:46	02/26/22 12:47	02/26/22 12:48	02/26/22 12:49	02/26/22 12:52	02/26/22 12:53	02/26/22 12:54	02/26/22 12:56
	Sample Location	JACKSON																							
.RL W. GOETZ	Matrix	DW																							
JACKSON LIDW-CARL W. GOETZ 21-327918.1	Client ID	CG-POE	CG-POE-F	CG-WF-04	CG-WF-04-F	CG-BF-05	CG-BF-05-F	CG-S-07	CG-S-07-F	CG-S-08	CG-S-08-F	CG-S-09	CG-S-09-F	CG-S-10	CG-S-10-F	CG-S-11	CG-S-11-F	CG-WF-12	CG-WF-12-F	CG-S-13	CG-S-13-F	CG-WF-14	CG-WF-14-F	CG-WF-15	CG-WF-15-F
Project Name: Project Number:	Alpha Sample ID	L2210401-01	L2210401-02	L2210401-03	L2210401-04	L2210401-05	L2210401-06	L2210401-07	L2210401-08	L2210401-09	L2210401-10	L2210401-11	L2210401-12	L2210401-13	L2210401-14	L2210401-15	L2210401-16	L2210401-17	L2210401-18	L2210401-19	L2210401-20	L2210401-21	L2210401-22	L2210401-23	R2999 6405 674

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03212212:52	Receive Date	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22	02/28/22
Serial_No:03212212:52	Collection Date/Time	02/26/22 12:57	02/26/22 12:58	02/26/22 12:59	02/26/22 13:00	02/26/22 13:04	02/26/22 13:05	02/26/22 13:21	02/26/22 13:22	02/26/22 13:25	02/26/22 13:26	02/26/22 13:27	02/26/22 13:28	02/26/22 13:29	02/26/22 13:30	02/26/22 13:31	02/26/22 13:32	02/26/22 13:46	02/26/22 13:47	02/26/22 13:48	02/26/22 13:49	02/26/22 13:50	02/26/22 13:51	02/26/22 13:52	02/26/22 13:53	02/26/22 13:54	02/26/22 13:55	02/26/22 13:56	02/26/22 13:57
	sample Location	JACKSON																											
	Matrix	DW																											
	Client ID	CG-WF-16	CG-WF-16-F	CG-WF-17	CG-WF-17F	CG-WF-18	CG-WF-18-F	CG-WF-20	CG-WF-20-F	CG-S-21	CG-S-21-F	CG-S-22	CG-S-22-F	CG-S-23	CG-S-23-F	CG-WF-24	CG-WF-24-F	CG-S-25	CG-S-25-F	CG-S-26	CG-S-26-F	CG-S-27	CG-S-27-F	CG-S-28	CG-S-28-F	CG-S-29	CG-S-29-F	CG-S-30	CG-S-30-F
-	Alpna Sample ID	L2210401-25	L2210401-26	L2210401-27	L2210401-28	L2210401-29	L2210401-30	L2210401-33	L2210401-34	L2210401-35	L2210401-36	L2210401-37	L2210401-38	L2210401-39	L2210401-40	L2210401-41	L2210401-42	L2210401-43	L2210401-44	L2210401-45	L2210401-46	L2210401-47	L2210401-48	L2210401-49	L2210401-50	L2210401-51	L2210401-52	L2210401-53	Page 3 of 67 L2210401-54

edal A			Samula	Serial_No:(Serial_No:03212212:52
Sample ID	Client ID	Matrix	Sample Location	Date/Time	Receive Date
L2210401-55	CG-WF-31	DW	JACKSON	02/26/22 13:58	02/28/22
L2210401-56	CG-WF-31-F	DW	JACKSON	02/26/22 13:59	02/28/22
L2210401-57	CG-BF-32	DW	JACKSON	02/26/22 13:58	02/28/22
L2210401-58	CG-BF-32-F	DW	JACKSON	02/26/22 13:59	02/28/22
L2210401-59	CG-WF-33	DW	JACKSON	02/26/22 14:03	02/28/22
L2210401-60	CG-WF-33-F	DW	JACKSON	02/26/22 14:04	02/28/22
L2210401-61	CG-WF-34	DW	JACKSON	02/26/22 14:07	02/28/22
L2210401-62	CG-WF-34-F	DW	JACKSON	02/26/22 14:08	02/28/22



 Lab Number:
 L2210401

 Report Date:
 03/21/22

NJ DEP Data of Known Quality Protocols Conformance/Non-Conformance Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature $(4 \pm 2^{\circ} C)$?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	YES
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	NO
5b	Were these reporting limits met?	N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".



Project Name: JACKSON LIDW-CARL W. GOETZ Project Number: 21-327918.1

Lab Number: L2210401 Report Date: 03/21/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:JACKSON LIDW-CARL W. GOETZProject Number:21-327918.1

 Lab Number:
 L2210401

 Report Date:
 03/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Report Submission

In reference to question 5a:

Reporting limits were not specified.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

600 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 03/21/22



METALS



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Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nı	ımber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RES	JLTS					
Lab ID:	L2210	401-02					Date C	ollected:	02/26/22	11:49	
Client ID:	CG-P	OE-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	68.00		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:18	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	ımber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-03					Date Co	ollected:	02/26/22	12:28	
Client ID:	CG-W	/F-04					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys
Total Metals - Mans	field Lab										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/03/22 10:5	8 03/03/22 22:26	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Number: L221			01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-05					Date Co	ollected:	02/26/22	12:28	
Client ID:	CG-BI	F-05					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/03/22 10:5	8 03/03/22 22:31	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-07					Date Co	ollected:	02/26/22	12:34	
Client ID:	CG-S-	-07					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	3.175		ug/l	1.000	0.3430	1	03/03/22 10:5	8 03/03/22 22:36	EPA 3005A	3,200.8	CD



JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL	E RESI	JLTS					
L2210	401-09					Date Co	ollected:	02/26/22	12:37	
CG-S-	-08					Date Re	eceived:	02/28/22		
JACK	SON					Field Pr	rep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
field I ab										
-	21-32 L2210 CG-S- JACK Dw Result	21-327918.1 L2210401-09 CG-S-08 JACKSON Dw	21-327918.1 L2210401-09 CG-S-08 JACKSON Dw Result Qualifier Units	21-327918.1 L2210401-09 CG-S-08 JACKSON Dw Result Qualifier Units RL	SAMPLE RESUL2210401-09 CG-S-08 JACKSON Dw Result Qualifier Units RL MDL	21-327918.1 SAMPLE RESULTS L2210401-09 CG-S-08 JACKSON Dw Result Qualifier Units RL MDL Dilution Factor	21-327918.1 Report SAMPLE RESULTS L2210401-09 Date Co CG-S-08 Date Re JACKSON Field Pr Dw Result Qualifier Units RL MDL Dilution Date Prepared	21-327918.1 Report Date: SAMPLE RESULTS L2210401-09 Date Collected: CG-S-08 Date Received: JACKSON Field Prep: Dw Date Male Result Qualifier Units RL MDL Date Date Action Prepared Date Action Date Action Date Action	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS Date Collected: 02/26/22 CG-S-08 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Prepared Date Date	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 12:37 CG-S-08 Date Received: 02/28/22 JACKSON Field Prep: Not Specified



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	ımber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RES	ULTS					
Lab ID:	L2210	401-11					Date C	ollected:	02/26/22	12:39	
Client ID:	CG-S-	-09					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	2.746		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 18:18	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-13					Date Co	ollected:	02/26/22	12:41	
Client ID:	CG-S-	-10					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	4.258		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 18:23	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-15					Date Co	ollected:	02/26/22	12:44	
Client ID:	CG-S-	-11					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	3.903		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 18:28	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	ımber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-17					Date C	ollected:	02/26/22	12:46	
Client ID:	CG-W	/F-12					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 18:34	EPA 3005A	3,200.8	CD



JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL	E RESI	JLTS					
L2210	401-19					Date Co	ollected:	02/26/22	12:48	
CG-S-	-13					Date Re	eceived:	02/28/22		
JACK	SON					Field Pr	ep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
field Lab										
	21-32 L2210 CG-S- JACK Dw Result	21-327918.1 L2210401-19 CG-S-13 JACKSON Dw Result Qualifier	21-327918.1 L2210401-19 CG-S-13 JACKSON Dw Result Qualifier Units	21-327918.1 L2210401-19 CG-S-13 JACKSON Dw Result Qualifier Units RL	SAMPLE RESULATION CG-S-13 JACKSON Dw Result Qualifier Units RL MDL	21-327918.1 SAMPLE RESULTS L2210401-19 CG-S-13 JACKSON Dw Result Qualifier Units RL MDL Dilution Factor	21-327918.1 Report SAMPLE RESULTS L2210401-19 Date Co CG-S-13 Date Re JACKSON Field Pr Dw Result Qualifier Units RL MDL Dilution Date Prepared	21-327918.1 Report Date: SAMPLE RESULTS L2210401-19 Date Collected: CG-S-13 Date Received: JACKSON Field Prep: Dw Dilution Date Date Result Qualifier Units RL MDL Dilution Date Date	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS L2210401-19 Date Collected: 02/26/22 CG-S-13 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Date Date Date Result Qualifier Units RL MDL	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 12:48 CG-S-13 Date Received: 02/28/22 JACKSON Field Prep: Not Specified Dw Date Date Date Prep Analytical MDL Factor Prepared Analyzed Method Method



Project Name:	JACK	SON LIDW	-CARL V	V. GOETZ	Z		Lab Nu	umber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-20					Date C	ollected:	02/26/22	12:49	
Client ID:	CG-S-	-13-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	6.337		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:23	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-21					Date Co	ollected:	02/26/22	12:52	
Client ID:	CG-W	′F-14					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	34.14		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 18:44	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	umber:	L22104	01	
Project Number:	21-32	7918.1					Report	t Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-22					Date C	ollected:	02/26/22	12:53	
Client ID:	CG-W	′F-14-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	7.737		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:28	EPA 3005A	3,200.8	CD



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Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	umber:	L22104	01	
Project Number:	21-32	7918.1					Report	t Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-24					Date C	ollected:	02/26/22	12:56	
Client ID:	CG-W	′F-15-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	4.688		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:34	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	ULTS					
Lab ID:	L2210	401-25					Date Co	ollected:	02/26/22	12:57	
Client ID:	CG-W	/F-16					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	2.675		ug/l	1.000	0.3430	1	03/04/22 09:5	0 03/04/22 19:04	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-27					Date Co	ollected:	02/26/22	12:59	
Client ID:	CG-W	′F-17					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										



				7		Lab Nu	mbor	1 22104	01	
JACK	SON LIDW	-UARL V	V. GUEL	<u> </u>			iniber.	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL		JLTS					
L2210	401-29					Date Co	ollected:	02/26/22	13:04	
CG-W	F-18					Date Re	eceived:	02/28/22		
JACK	SON					Field Pi	rep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
field Lab										
	21-32 L2210 CG-W JACK Dw Result	21-327918.1 L2210401-29 CG-WF-18 JACKSON Dw Result Qualifier	21-327918.1 L2210401-29 CG-WF-18 JACKSON Dw Result Qualifier Units	21-327918.1 L2210401-29 CG-WF-18 JACKSON Dw Result Qualifier Units RL	SAMPLE RESULATION CG-WF-18 JACKSON Dw Result Qualifier Units RL MDL	21-327918.1 SAMPLE RESULTS L2210401-29 CG-WF-18 JACKSON Dw Result Qualifier Units RL MDL Dilution Factor	21-327918.1 Report SAMPLE RESULTS L2210401-29 Date Co CG-WF-18 Date Re JACKSON Field P Dw Result Qualifier Units RL MDL Dilution Date Prepared	21-327918.1 Report Date: SAMPLE RESULTS L2210401-29 Date Collected: CG-WF-18 Date Received: JACKSON Field Prep: Dw Date Male Result Qualifier Units RL MDL Date Date Action Date Date Date Date	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS Date Collected: 02/26/22 CG-WF-18 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Dilution Date Date Result Qualifier Units RL MDL	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 13:04 L2210401-29 Date Collected: 02/28/22 CG-WF-18 JACKSON Field Prep: Not Specified Dw Dw Date Date Date Prep Analytical MDL Prepared Prepared Prep Method Method



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	ULTS					
Lab ID:	L2210	401-30					Date C	ollected:	02/26/22	13:05	
Client ID:	CG-W	/F-18-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analys
Total Metals - Mans	field Lab										
Lead, Total	522.0		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:39	EPA 3005A	3,200.8	CD



JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL	E RESI	JLTS					
L2210	401-33					Date Co	ollected:	02/26/22	13:21	
CG-W	′F-20					Date Re	eceived:	02/28/22		
JACK	SON					Field Pr	ep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
field Lab										
137.2		ug/l	1.000	0.3430					3,200.8	CD
	21-32 L2210 CG-W JACK Dw Result	21-327918.1 L2210401-33 CG-WF-20 JACKSON Dw Result Qualifier	21-327918.1 L2210401-33 CG-WF-20 JACKSON Dw Result Qualifier Units	21-327918.1 L2210401-33 CG-WF-20 JACKSON Dw Result Qualifier Units RL field Lab	SAMPLE RESUL2210401-33 CG-WF-20 JACKSON Dw Result Qualifier Units RL MDL field Lab	21-327918.1 SAMPLE RESULTS L2210401-33 CG-WF-20 JACKSON Dw Result Qualifier Units RL MDL Dilution Factor field Lab	21-327918.1 Report SAMPLE RESULTS L2210401-33 Date Co CG-WF-20 Date Re JACKSON Field Pr Dw Result Qualifier Units RL MDL Dilution Date Prepared field Lab	21-327918.1 Report Date: SAMPLE RESULTS Date Collected: L2210401-33 Date Collected: CG-WF-20 Date Received: JACKSON Field Prep: Dw Dw Result Qualifier Units RL MDL Date Prepared Date Analyzed field Lab Field Lab Field Lab Field Lab Field Lab Field Lab	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS Date Collected: 02/26/22 CG-WF-20 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Prepared Date Prepared Result Qualifier Units RL MDL Dilution Date Prepared Date Prep Method Field Lab Date Prepared Date Prep	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 13:21 L2210401-33 Date Received: 02/28/22 JACKSON Field Prep: Not Specified



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	umber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-34					Date C	ollected:	02/26/22	13:22	
Client ID:	CG-W	/F-20-F					Date R	eceived:	02/28/22		
Sample Location:	JACK	SON					Field P	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	293.8		ug/l	1.000	0.3430	1	03/09/22 09:1	4 03/09/22 19:44	EPA 3005A	3,200.8	CD



Droin of Norman					-		Lab Nu	and a sec	100404	04	
Project Name:	JACK	SON LIDW	-CARL V	V. GOET.	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-35					Date Co	ollected:	02/26/22	13:25	
Client ID:	CG-S-	-21					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	7.189		ug/l	1.000	0.3430	1	03/05/22 23.4	8 03/07/22 17:04	EPA 3005A	3,200.8	CD



JACK	SON LIDW	-CARL V	N. GOET	Z		Lab Nu	mber:	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL	E RESI	JLTS					
L2210	401-37					Date Co	ollected:	02/26/22	13:27	
CG-S-	-22					Date Re	eceived:	02/28/22		
JACK	SON					Field Pr	rep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
field Lab										
	21-32 L2210 CG-S- JACK	21-327918.1 L2210401-37 CG-S-22 JACKSON Dw	21-327918.1 L2210401-37 CG-S-22 JACKSON Dw	21-327918.1 L2210401-37 CG-S-22 JACKSON Dw	SAMPLE RESU L2210401-37 CG-S-22 JACKSON Dw	21-327918.1 SAMPLE RESULTS L2210401-37 CG-S-22 JACKSON Dw	21-327918.1 Report SAMPLE RESULTS L2210401-37 Date Co CG-S-22 Date Re JACKSON Field Pr Dw Result Qualifier Units RL MDL Dilution Date Prepared	21-327918.1 Report Date: SAMPLE RESULTS L2210401-37 Date Collected: CG-S-22 Date Received: JACKSON Field Prep: Dw Dilution Date Date Result Qualifier Units RL MDL Dilution Date Date	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS L2210401-37 Date Collected: 02/26/22 CG-S-22 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Dilution Date Date Result Qualifier Units RL MDL	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 13:27 L2210401-37 Date Collected: 02/28/22 JACKSON Field Prep: Not Specified Dw Dw Date Date Date Prep Analytical MDL Factor Prepared Date Prep Analytical



JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01	
21-32	7918.1					Report	Date:	03/21/2	2	
			SAMPL	E RESI	JLTS					
L2210	401-39					Date Co	ollected:	02/26/22	13:29	
CG-S-	23					Date Re	eceived:	02/28/22		
JACK	SON					Field P	rep:	Not Spec	cified	
Dw										
Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
ield Lab										
	21-32 L2210 CG-S- JACKS Dw Result	21-327918.1 L2210401-39 CG-S-23 JACKSON Dw Result Qualifier	21-327918.1 L2210401-39 CG-S-23 JACKSON Dw Result Qualifier Units	21-327918.1 L2210401-39 CG-S-23 JACKSON Dw Result Qualifier Units RL	SAMPLE RESULATION SAMPLE RESUL	21-327918.1 SAMPLE RESULTS L2210401-39 CG-S-23 JACKSON Dw Result Qualifier Units RL MDL Dilution Factor	21-327918.1 Report SAMPLE RESULTS L2210401-39 Date Co CG-S-23 Date Ro JACKSON Field Pr Dw Result Qualifier Units RL MDL Factor Prepared	21-327918.1 Report Date: SAMPLE RESULTS L2210401-39 Date Collected: CG-S-23 Date Received: JACKSON Field Prep: Dw Date Model Result Qualifier Units RL MDL Date Prepared Date Analyzed	21-327918.1 Report Date: 03/21/2 SAMPLE RESULTS Date Collected: 02/26/22 CG-S-23 Date Received: 02/28/22 JACKSON Field Prep: Not Spect Dw Result Qualifier Units RL MDL	21-327918.1 Report Date: 03/21/22 SAMPLE RESULTS Date Collected: 02/26/22 13:29 CG-S-23 Date Received: 02/28/22 JACKSON Field Prep: Not Specified



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Number:		L2210401		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-41					Date Co	ollected:	02/26/22	13:31	
Client ID:	CG-W	/F-24					Date R	eceived:	02/28/22		
Sample Location:	JACK	G-WF-24 ACKSON					Field P	rep:	Not Spec		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	64.18	ACKSON w ult Qualifier U Lab		1.000	0.3430	1	03/05/22 23:4	8 03/07/22 17:31	EPA 3005A	3,200.8	CD



					_						
Project Name:	JACK	SON LIDW	-CARL V	V. GOET.	Ζ		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL		JLTS					
Lab ID:	L2210	401-42					Date Co	ollected:	02/26/22	13:32	
Client ID:	CG-W	CG-WF-24-F					Date Re	eceived:	02/28/22		
Sample Location:	JACK	CG-WF-24-F JACKSON				Field Pr	rep:	Not Spec	Not Specified		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	11.07		ug/l	1.000	0.3430	1	03/11/22 09:5	2 03/13/22 14:06	EPA 3005A	3,200.8	WP



Project Name:	JACK	SON LIDW	-CARL V	. GOET	Z				L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210						Date Co	ollected:	02/26/22	13:46	
Client ID:	CG-S-	-25					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	ep:	Not Spec		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:4	8 03/07/22 17:34	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Number: L22		L22104	01		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2		
				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-45					Date Co	ollected:	02/26/22	13:48		
Client ID:	CG-S-	-26					Date R	eceived:	02/28/22	2/28/22		
Sample Location:	JACK	SON				Field Prep:			Not Spec			
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	2.500		ug/l	1.000	0.3430	1	03/05/22 23:4	8 03/07/22 17:37	EPA 3005A	3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2		
				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-47					Date Co	ollected:	02/26/22	13:50		
Client ID:	CG-S-	-27					Date Re	eceived:	02/28/22	2/28/22		
Sample Location:	JACK	IACKSON					Field Pi	rep:	Not Spec			
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	2.958		ug/l	1.000	0.3430		00/05/00 00 4	8 03/07/22 17:40		3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL W	. GOET	Z		Lab Number: L22		L22104	01		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2		
				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-49					Date C	ollected:	02/26/22	13:52		
Client ID:	CG-S-	-28					Date R	eceived:	02/28/22	2/28/22		
Sample Location:	JACK	SON				Field Prep:			Not Spec			
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	1.894		ug/l	1.000	0.3430	1	03/05/22 23:4	8 03/07/22 17:43	EPA 3005A	3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	imber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	ULTS					
Lab ID:	L2210	401-51					Date Co	ollected:	02/26/22	13:54	
Client ID:	CG-S-	-29					Date R	eceived:	02/28/22		
Sample Location:	JACK	ACKSON					Field P	rep:	Not Spec		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	4.094		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 13:11	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	L2210401		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2		
				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-53					Date Co	ollected:	02/26/22	13:56		
Client ID:	CG-S-	S-S-30					Date R	eceived:	02/28/22	22		
Sample Location:	JACK	ACKSON					Field P	rep:	Not Spec			
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	3.329		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 13:20	EPA 3005A	3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL W	. GOET	Z		Lab Number: L22			01		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	03/21/22		
-				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-55					Date Co	ollected:	02/26/22	13:58		
Client ID:	CG-W	F-31					Date Re	eceived:	02/28/22			
Sample Location:	JACK	CG-WF-31 ACKSON					Field Pr	ep:	Not Spec			
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 13:30	EPA 3005A	3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL W	. GOET	Z		Lab Number: L2		L22104	01		
Project Number:	21-32	7918.1					Report	Date:	03/21/2	03/21/22		
				SAMPL	E RESI	JLTS						
Lab ID:	L2210	401-57					Date Co	ollected:	02/26/22	13:58		
Client ID:	CG-BI	- 32					Date Re	eceived:	02/28/22	/28/22		
Sample Location:	JACK	SON					Field Prep:			Not Specified		
Sample Depth:												
Matrix:	Dw											
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst	
Total Metals - Mans	field Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 13:44	EPA 3005A	3,200.8	CD	



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	L2210401	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RES	JLTS					
Lab ID:	L2210	401-59					Date Co	ollected:	02/26/22	14:03	
Client ID:	CG-W	G-WF-33 ACKSON					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pi	rep:	Not Specified		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	79.27		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 13:53	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RES	ULTS					
Lab ID:	L2210	401-60					Date Co	ollected:	02/26/22	14:04	
Client ID:	CG-W	G-WF-33-F					Date Re	eceived:	02/28/22		
Sample Location:	JACK	G-WF-33-F ACKSON					Field Pi	rep:	Not Spec		
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	163.4		ug/l	10.00	3.430	10	03/16/22 07:4	6 03/17/22 17:20	EPA 3005A	3,200.8	SV



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RESI	JLTS					
Lab ID:	L2210	401-61					Date Co	ollected:	02/26/22	14:07	
Client ID:	CG-W	′F-34					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	rep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	15.15		ug/l	1.000	0.3430	1	03/04/22 10:2	7 03/07/22 14:02	EPA 3005A	3,200.8	CD



Project Name:	JACK	SON LIDW	-CARL V	V. GOET	Z		Lab Nu	mber:	L22104	01	
Project Number:	21-32	7918.1					Report	Date:	03/21/2	2	
				SAMPL	E RES	ULTS					
Lab ID:	L2210	401-62					Date Co	ollected:	02/26/22	14:08	
Client ID:	CG-W	/F-34-F					Date Re	eceived:	02/28/22		
Sample Location:	JACK	SON					Field Pr	ep:	Not Spec	cified	
Sample Depth:											
Matrix:	Dw										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	152.8		ug/l	10.00	3.430	10	03/16/22 07:4	6 03/17/22 17:35	EPA 3005A	3,200.8	SV



Project Name:JACKSON LIDW-CARL W. GOETZProject Number:21-327918.1

 Lab Number:
 L2210401

 Report Date:
 03/21/22

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	01,03,05,	07 Batc	h: WG1	609998-1				
Lead, Total	ND	ug/l	1.000	0.3430	1	03/03/22 10:58	03/03/22 20:07	3,200.8	CD
			Duon Infe		-				
			Prep Info						
		Digestion	Method:	EPA	3005A				
Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	51,53,55,	57,59,61	Batch	: WG1610	028-1			
Lead, Total	ND	ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 13:05	3,200.8	CD
			Prep Info	ormatio	n				
		Digestion			3005A				
Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	35,37,39,	41,43,45	,47,49	Batch: WO	G1610054-1			
Lead, Total	ND	ug/l	1.000	0.3430	1	03/05/22 23:48	03/07/22 16:40	3,200.8	CD
			Prep Info	ormatio	n				
		Digestion	Method:	EPA	3005A				

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Mansfield	Lab for sample(s):	09,11,13,	15,17,19	9,21,23,2	25,27,29,33	Batch: WG1	611652-1		
Lead, Total	ND	ug/l	1.000	0.3430	1	03/04/22 09:50	03/04/22 16:56	3,200.8	CD



Project Name:JACKSON LIDW-CARL W. GOETZProject Number:21-327918.1

 Lab Number:
 L2210401

 Report Date:
 03/21/22

Method Blank Analysis Batch Quality Control

Prep	Information
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Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mans	field Lab for sample(s):	02,20,22	,24,30,34	Batch	: WG1612	739-1			
Lead, Total	ND	ug/l	1.000	0.3430	1	03/09/22 09:14	03/09/22 18:01	3,200.8	CD
	_		Prep Info	ormatio	n				
		Digestion	Method:	EPA	3005A				
Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mans	field Lab for sample(s):	42 Batc	h: WG16	13804-	1				
Lead, Total	ND	ug/l	1.000	0.3430	1	03/11/22 09:52	03/13/22 13:50	3,200.8	WP
			Prep Info	ormatio	n				
		Digestion	Method:	EPA	3005A				
Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
	Result Qualifier				Factor				

Digestion Method: EPA 3005A

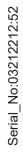


5 0	lits														
L2210401 03/21/22	RPD Limits														
Lab Number: Report Date:	Qual														
Lab N Repo	RPD														
ualysis I	%Recovery Limits		85-115		85-115		85-115	311652-2	85-115		85-115		85-115		85-115
ity Contro	Qual			5		10054-2		Batch: WG1611652-2		Ņ					
Lab Control Sample Analysis Batch Quality Control	LCSD %Recovery	Batch: WG1609998-2		Batch: WG1610028-2		49 Batch: WG1610054-2				Batch: WG1612739-2		04-2		15311-2	
La La	Qual	Batch: \				,43,45,47,		,17,19,21,				Batch: WG1613804-2		Batch: WG1615311-2	
.W. GOETZ	LCS %Recovery	(s): 01,03,05,07	94	(s): 51,53,55,57	93	(s): 35,37,39,41	96	(s): 09,11,13,15	95	(s): 02,20,22,24	95		94		110
JACKSON LIDW-CARL W. GOETZ 21-327918.1		Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07		Total Metals - Mansfield Lab Associated sample(s): 51,53,55,57,59,61		Total Metals - Mansfield Lab Associated sample(s): 35,37,39,41,43,45,47,49		Total Metals - Mansfield Lab Associated sample(s): 09,11,13,15,17,19,21,23,25,27,29,33		Total Metals - Mansfield Lab Associated sample(s): 02,20,22,24,30,34		Total Metals - Mansfield Lab Associated sample(s): 42		Total Metals - Mansfield Lab Associated sample(s): 60,62	
		ansfield Lab		ansfield Lab		ansfield Lab		ansfield Lab		ansfield Lab		ansfield Lab		ansfield Lab	
Project Name: Project Number:	Parameter	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total	Total Metals - Ma	Lead, Total

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ALPHA

Project Name: Project Number:	JACKSON LIDW-CARL W. GOETZ 21-327918.1	CARL W. GOE	ZL	Matrix Sp Batch Qu	Matrix Spike Analysis Batch Quality Control	<u>.0</u>	Lab Number: Report Date:		L2210401 03/21/22
Parameter	Native Sample	MS Added	MS Found %	MS %Recovery Qual	MSD Found	MSD %Recovery Qual	Recovery al Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 51,53,55,57,59,61	d Lab Associated san	nple(s): 51,53,	55,57,59,61	QC Batch ID: WG1610028-3	G1610028-3	QC Sample: L2210401-51	210401-51	Client ID: CG-S-29	S-29
Lead, Total	4.094	530	522.7	98	,		70-130	ı	20
Total Metals - Mansfield Lab Associated sample(s): 51,53,55,57,59,61	d Lab Associated san	nple(s): 51,53,	55,57,59,61	QC Batch ID: WG1610028-5	G1610028-5	QC Sample: L2210401-53	210401-53	Client ID: CG-S-30	S-30
Lead, Total	3.329	530	518.8	97	,		70-130	ı	20
Total Metals - Mansfield Lab Associated sample(s): 42	d Lab Associated san		C Batch ID:	QC Batch ID: WG1613804-3	QC Sample: L2210401-42		Client ID: CG-WF-24-F	VF-24-F	
Lead, Total	11.07	530	495.8	91			70-130	ı	20
Total Metals - Mansfield Lab Associated sample(s): 60,62	d Lab Associated san	nple(s): 60,62	QC Batch	QC Batch ID: WG1615311-3		QC Sample: L2210401-60	Client ID: CG-WF-33-F	G-WF-33-F	
Lead, Total	163.4	530	707.5	103		ı	70-130	·	20
Total Metals - Mansfield Lab Associated sample(s): 60,62	d Lab Associated san	nple(s): 60,62	QC Batch	QC Batch ID: WG1615311-5		QC Sample: L2210401-62	Client ID: CG-WF-34-F	G-WF-34-F	
Lead, Total	152.8	530	633.4	91	ı	I	70-130	·	20





Project Name: JACKSON LIDW-CARL W. GOETZ Project Number: 21-327918.1	DETZ	Lab Duplicate Analysis Batch Quality Control	sis	Lab Number: Report Date:	L2210401 03/21/22
Parameter	Native Sample	Duplicate Sample	Units	RPD Qual R	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 51,53,55,57,59,61		QC Batch ID: WG1610028-4	QC Sample: L2	QC Sample: L2210401-51 Client ID: CG-S-29	CG-S-29
Lead, Total	4.094	4.265	l/gu	4	20
Total Metals - Mansfield Lab Associated sample(s): 51,53,55,57,59,61		QC Batch ID: WG1610028-6	QC Sample: L2	QC Sample: L2210401-53 Client ID: CG-S-30	CG-S-30
Lead, Total	3.329	3.310	l/gu	-	20
Total Metals - Mansfield Lab Associated sample(s): 42	QC Batch ID: WG1613804-4		2210401-42 Cli	QC Sample: L2210401-42 Client ID: CG-WF-24-F	
Lead, Total	11.07	11.66	l/gu	5	20
Total Metals - Mansfield Lab Associated sample(s): 60,62	QC	Batch ID: WG1615311-4 QC Sample:	L2210401-60	QC Sample: L2210401-60 Client ID: CG-WF-33-F	
Lead, Total	163.4	166.1	l/gu	2	20
Total Metals - Mansfield Lab Associated sample(s): 60,62	g	Batch ID: WG1615311-6 QC Sample:	L2210401-62	QC Sample: L2210401-62 Client ID: CG-WF-34-F	
Lead, Total	152.8	150.3	l/bn	2	20



Serial_No:03212212:52 Lab Number: L2210401 Report Date: 03/21/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

0 Z

Cooler Information

Custody Seal	Absent	Absent
Cooler	В	U

Container Information

HOLD-METAL-TOTAL(180)

Absent Absent Absent

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3.5 3.5

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3.5

PB-2008T-PPB(180)

PB-2008T-PPB(180) PB-2008T-PPB(180)

Absent Absent Absent

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3.5 3.5

8 8 8

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Analysis(*)

Frozen Date/Time

Seal

Temp deg C Pres \$

Final pH

Initial pH HOLD-METAL-TOTAL(180)

PB-2008T-PPB(180)

HOLD-METAL-TOTAL(180)

Absent Absent Absent Absent Absent Absent

Absent

3.5

PB-2008T-PPB(180)

PB-2008T-PPB(180)

Container ID	Container Type	Cooler
L2210401-01A	Plastic 250ml HNO3 preserved	G
L2210401-02A	Plastic 250ml HNO3 preserved	Ċ
L2210401-03A	Plastic 250ml HNO3 preserved	U
L2210401-04A	Plastic 250ml HNO3 preserved	U
L2210401-05A	Plastic 250ml HNO3 preserved	Ċ
L2210401-06A	Plastic 250ml HNO3 preserved	Ċ
L2210401-07A	Plastic 250ml HNO3 preserved	U
L2210401-08A	Plastic 250ml HNO3 preserved	Ċ
L2210401-09A	Plastic 250ml HNO3 preserved	Ċ
L2210401-10A	Plastic 250ml HNO3 preserved	Ċ
L2210401-11A	Plastic 250ml HNO3 preserved	Ċ
L2210401-12A	Plastic 250ml HNO3 preserved	Ċ
L2210401-13A	Plastic 250ml HNO3 preserved	Ċ
L2210401-14A	Plastic 250ml HNO3 preserved	Ċ
L2210401-15A	Plastic 250ml HNO3 preserved	Ċ
L2210401-16A	Plastic 250ml HNO3 preserved	U
L2210401-17A	Plastic 250ml HNO3 preserved	U
L2210401-18A	Plastic 250ml HNO3 preserved	IJ
L2210401-19A	Plastic 250ml HNO3 preserved	IJ
L2210401-20A	Plastic 250ml HNO3 preserved	IJ
L2210401-21A	Plastic 250ml HNO3 preserved	IJ
L2210401-22A	Plastic 250ml HNO3 preserved	Ċ

HOLD-METAL-TOTAL(180)

PB-2008T-PPB(180)

HOLD-METAL-TOTAL(180)

PB-2008T-PPB(180)

PB-2008T-PPB(180)

HOLD-METAL-TOTAL(180)

HOLD-METAL-TOTAL(180)

PB-2008T-PPB(180)

Absent Absent Absent

Absent

3.5 3.5 3.5 3.5 PB-2008T-PPB(180) PB-2008T-PPB(180)

PB-2008T-PPB(180)

PB-2008T-PPB(180)

HOLD-METAL-TOTAL(180)

Absent Absent

Absent

Absent

3.5 3.5

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2



Project Name: JACKSON LIDW-CARL W. GOETZ Project Number: 21-327918.1

Serial_No:03212212:52 Lab Number: L2210401 Report Date: 03/21/22

		180)	180)	180)	OTAL(180)	180)	OTAL(180)	180)	180)	180)	180)	180)	OTAL(180)	180)	OTAL(180)	180)	OTAL(180)	180)	180)	180)	OTAL(180)								
	Analysis(*)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)								
Frozen	Date/Time																												
	Seal	Absent																											
	Pres	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻
Temp	deg C	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.7	3.5	3.5	3.5	3.5	2.7	3.5	3.5	3.5	2.7	2.7	2.7	2.7	3.5	2.7	2.7	2.7	2.7	2.7
Final	Нd	<2	<2	<2	<2	<2	<2	<2	<2	<2	42	<2	<2	<2	42	42	42	42	<2	42	42	<2	<2	<2	<2	<2	<2	<2	<2
Initial	Нd	<2	5	5	5	5	5	~2	5	5	5	\$	\$	\$	5	5	5	5	\$	5	5	5	5	~2	\$	5	5	5	~
	Cooler	Ċ	U	U	U	U	U	U	U	U	В	U	U	U	U	В	U	U	U	В	В	В	В	U	В	В	В	В	ш
rmation	Container Type	Plastic 250ml HNO3 preserved																											
Container Information	Container ID	L2210401-23A	L2210401-24A	L2210401-25A	L2210401-26A	L2210401-27A	L2210401-28A	L2210401-29A	L2210401-30A	L2210401-33A	L2210401-34A	L2210401-35A	L2210401-36A	L2210401-37A	L2210401-38A	L2210401-39A	L2210401-40A	L2210401-41A	L2210401-42A	L2210401-43A	L2210401-44A	L2210401-45A	L2210401-46A	L2210401-47A	L2210401-48A	L2210401-49A	L2210401-50A	L2210401-51A	L2210401-52A



JACKSON LIDW-CARL W. GOETZ	21-327918.1
Project Name:	Project Number:

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	Analysis(*)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	HOLD-METAL-TOTAL(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)	PB-2008T-PPB(180)
Frozen	Date/Time										
	Seal	Absent									
	Pres	≻	≻	≻	≻	≻	≻	≻	≻	≻	≻
Temp	deg C	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Final	Нd	22	<2	42	~	42	<2	<2	~	~	\$
Initial	Нd	<2	<2	42	<2	42	<2	<2	42	<2	42
	Cooler	В	В	В	Ш	В	Ш	В	В	Ш	В
rmation	Container Type	Plastic 250ml HNO3 preserved									
Container Information	Container ID	L2210401-53A	L2210401-54A	L2210401-55A	L2210401-56A	L2210401-57A	L2210401-58A	L2210401-59A	L2210401-60A	L2210401-61A	L2210401-62A





Project Name: JACKSON LIDW-CARL W. GOETZ

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GLOSSARY

Acronyms	
DL	 Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



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Footnotes

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- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(a)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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Data Qualifiers

- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- V The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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Project Name:JACKSON LIDW-CARL W. GOETZProject Number:21-327918.1

 Lab Number:
 L2210401

 Report Date:
 03/21/22

REFERENCES

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. **EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. **Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics, EPA 608.3: Chlordane Toxaphene Aldrin alpha-BHC beta-BHC gamma-BHC delta-BHC Dieldrin DDD DDE DDT Endosulfan I Endosulfan II

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. **EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn. **EPA 245.1** Hg. **SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ANALYSIS Sample Filtration		Done Lab to do Preservation	Lab to do Preservation Lab to do (Please Specify below)	Lab to do Preservation Lab to do (Please Specify below) Sample Specific Comments	Lab to do Preservation Lab to do Preservation (Please Specify below) X	Lab to do Preservation Lab to do Preservation (Please Specify below) Sample Specific Comments	Contraction Contractin Contractin Contractin Contractin Contractin	Lab to do Preservation Lab to do Preservation (Please Specify below) X X	Image: Contract of the second state of the second	Lab to do Preservation Lab to do Preservation (Please Specify below) Sample Specific Comments	Lab to do Preservation Lab to do Preservation (Please Specify below) X X	Contraction Contractin Contractin Contractin Contractin Contractin		Image: Construction Image: Construction Imag			Received By: 272 227 two	Received By:	Prove
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67	, -	7-70-1m		1:32	1	-			
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HH		5-25-6		1: u7					
45		5-26		1:48					
ALP		5-26-1		1:49					
44		S-27		1:50					
48		2-87-C		4.51					
49	/	S-38	/	1:52	1	1	//		
20	>	5-98-P	>	1:53	A	2	1		
Preservative Code: A = None	Container Code P = Plastic	Westboro: Certification No: MA935	Vo: MA935		Cont	Container Tyne	0		Please print clearly, legibly
	A = Amber Glass	Mansfield: Certification No: MA015	Vo: MA015			add i minor	*		and completely. Samples can
	V = Vial G = Glass				đ	Preservative			not be logged in and turnaround time clock will not
E = NaOH	B = Bacteria Cup						2		start until any ambiguities are
	C = Cube O = Other	Relinquished By:	By:	Date/Time	Time		Received By:	. Date/Time	resolved. BY EXECUTING
	E = Encore	A		Q 3k.	930	TMT		2/28/22 1000	THIS COC, THE CLIENT
K/E = Zn Ac/NaOH O = Other	U = BUU Bottle	mtm		2/28/2	2 1330	1 PCA	-AAL	2/28/1800	TO BE BOUND BY ALPHA'S
Com No. 04 44 LC from 20	tores over	ALL KO		21212	1	12	1 2 S	1.02.11.0	(See reverse side.)
Point No: U1-14 Hu (rev. 30-Sept-2013)	-Sepi-2013)		125	A		0	Sources Survey	141011	
rage oo ol ol		1					5		

ALPHA JOD# 1931 0401	Billing Information □ Same as Client Info Po≇	Silo Information	is this site impacted by Petroleum? Yes	-		Sample Filtration	Done Done Lab to do	(Please Specify below)		Sample Specific Comments									Please print clearly, legibly	and completely. Samples can not be looped in and	turnaround time clock will not start until any ambiguities are	resolved. BY EXECUTING	HAS READ AND AGREES	TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	(See reverse side.)	
-ec/8e/e	EQUIS (4 File)		on Residential	SRS Impact to Groundwater NJ Ground Water Quality Standards	NJ IGW SPLP Leachate Criteria Other																	Date/Time	2 28 22 1000	2728' (80)	21422-	
Date Rec'd In Lab	Deliverables	Other	SRS Resider	SRS Impact	NJ IGW SPL	ANALYSIS		< rec	Sampler's	Initials	7 14					-		× ×	Type 0	-	Preservative	Received By:	MT	CA AAL	200	12.
Page 6			¢	110	the Date:		nmepds:		Sample	-	1:54 DW #	1155 J	1.56	1158	1:59	1:58	1:59	1 100 CO.C	Container Type		Preser	le/	2 a8 930 h	28/22 1330	1000	
Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Project Information Project Name: Project Location;		Project Manager:	ALPHAQJOIE #: TurreAround Time	() Alter		For VOC; selection Other project specific requirements/comment is REQUIRED: 1,4-Dioxane Please specify Metals or TAL.		Collection	Date	- 89 , 8 26 92	4-F	20.20	18-3	6-31-F		1-20-1	1 1 1 22-0	stboro: Certification No: MA935	Mansfield: Certification No: MA015		Relinquished By:	AL 6	MA-DAI 3	a man (
NEW JERSEY S CHAIN OF A CUSTODY	Mansfield, MA 02046 320 Forbes Blvd TEL 506-922-9300 FAX: 509-922-3288 P	<u>.</u>				These samples have begin previously analyzed by Alpha		8011	Comme	fuipo	CG-S			3	CM IN	0	0	in A	Container Code P = Plastic	A = Amber Glass N = Visit	G = Glass B = Bacteria Cup	C = Cube 0 = Other	E = Encore	D = BOD Bottle	0-Sept-2013)	
Агрна	Westborough, MA 01581 8 Walkup Dr. TEL: 509-898-9220 FAX: 508-898-9193	Client Information	Address:	Phone:	Fax: Email:	These samples have b	For EPH, selection is REQUIRED: Category 1	Category 2	ALPHA Lab ID	(Lab Use Only)	10401-51	aci	25	SS	Sue	ts	20 Sol	100	e Code:	B = HCI C = HNO.	D = H ₃ SO ₄ E = NaOH	F = MeOH		NaOH	Form No: 01-14 HC (rev. 30-Sept-2013)	age 66 of 67

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ALPHA JOB # (0)	Billing Information	Po#		Site Information	retroleum? Yes	Petroleum Product:		Sample Filtration T		(Please Specify below)	Sample Specific Comments				Please print clearly, legibly and completely. Samples can	not be logged in and turnaround time clock will not start until any ambiouities are	resolved. BY EXECUTING	THIS COC, THE CLIENT HAS READ AND AGREES	TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	(See reverse side.)	
Date Rec'd 3/78/79-		EQUIS (4 File)			SRS Residential/Non Residential	andards	NJ IGW SPLP Leachate Criteria										Date/Time	2/28/22 1000	2/28 13(20	211822	
Date Rec'd	Deliverables	EQUIS (1 File)	Other	Regulatory Requirement	SRS Resident	NJ Ground W		ANALYSIS		ومر	Sampler's 🗸 Initials	+	-		Type Q		Received By:	MT	A THAL	en the	EV.V
Page 1						an and there is a	Due Date:	oi bays.	mants:	-	ime Matrix	2:07 DW A	3:08		Container Type	Preservative	Date/Time	128, 9:	28 24 1330		
Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Project Information	Project Name: Project Location:	Project #	(Use Project name as Project #)	Project Manager:	ALPHAQuote #;			is REQUIRED: 1,4-Dioxane 8011		Date	34 2/20/03/2	34-1/ 1/ 3:		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Relinquished By:	AL 8	4 441 2	12/2 r = 2	
NEW JERSEY Serv CHAIN OF Atbat CUSTODY Tona		FAX: 508-822-3288 Proj	Proj	(dse	loug		A	These samples have been areviously analyzed by Alpha	is REQUIRED: 1,4-Dioxane 8011		Sample ID	CG-WF.	NF-				C = Cube	E = Ericore		-Sept-2013)	
Ацяна	Westborough, MA 01581 8 Walkup Dr.	FAX: 508-898-9193	Client Information	Client	Address:	Phone:	Fax:	These samples have be	For EPH, selection is REQUIRED: Category 1 Category 2	The second s	ALPHA Lab ID (Lab Use Only)	10401-101	en		re Code:	C = HNO ₃ D = H ₂ SO ₄ E = NaOH		G = NaHSO4 H = Na ₂ S ₂ O ₃	K/E = Zn Ac/NaOH 0 = Other	Form No: 01-14 HC (rev. 30-Sept-2013)	age 67 of 67