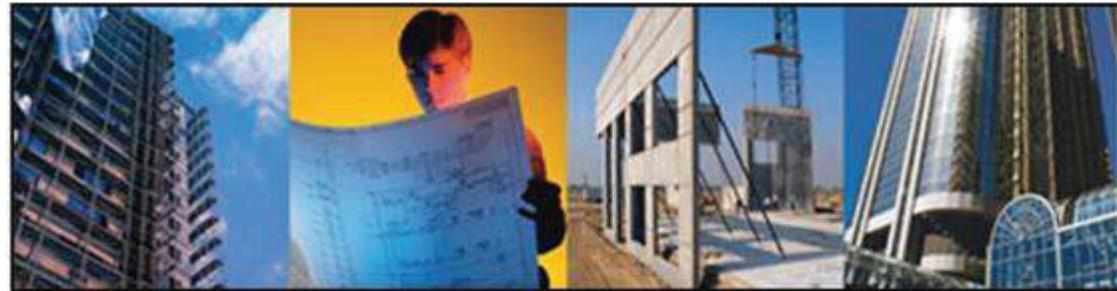


# PARTNER

Engineering and Science, Inc.<sup>®</sup>



## DRINKING WATER SAMPLING REPORT

**Christa McAuliffe Middle School**  
35 South Hope Chapel Road  
Jackson, New Jersey 08527

April 25, 2022  
Partner Project No. 21-327918.2



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  
Christa McAuliffe Middle School  
35 South Hope Chapel Road  
Jackson, New Jersey 08527  
Partner Project 21-327918.2

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,



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**

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Partner Engineering and Science, Inc. (Partner) collected drinking water samples for Christa McAuliffe Middle 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 Christa McAuliffe Middle School. Specifically, water from the following outlets had exceedances:

- CM-POE, initial draw, 852.90 ppb
- CM-POE-F, second draw, 486.80 ppb
- CM-WF-09, initial draw, 38.53 ppb
- CM-WF-09-F, second draw, 41.77 ppb
- CM-WF-11, initial draw, 24.24 ppb
- CM-WF-22, initial draw, 95.67 ppb
- CM-WF-38, initial draw, 25.32 ppb
- CM-WF-42, initial draw, 15.73 ppb
- CM-WF-46, initial draw, 24.11 ppb

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

- For 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 lead-leaching 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**

<b>Address(s):</b>	35 South Hope Chapel Road, Jackson, New Jersey, 08527
<b>Nature of Use:</b>	School
<b>Walk-Through Inspector:</b>	Anastassia Swenticky
<b>Walk-Through Date:</b>	December 28, 2021
<b>Sampling Conducted By:</b>	Anastassia Swenticky & Nick Schiera
<b>Sampling Date:</b>	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**

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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 128 drinking water samples from Christa McAuliffe Middle School in March 2017. A total of 65 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 a total of one (1) first draw samples exceeded the USEPA Action level of 15 ppb for lead, however, the second draw sample did not exceed the action level.

## 4.0 ANALYTICAL RESULTS

During the course of this site visit, Partner collected water samples at sixty-four (64) 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.

A total of 122 drinking water samples were collected from Christa McAuliffe on February 26, 2022. A total of 68 samples were analyzed. The results are listed in Table 1 below.

**Table 1**  
**Analytical Results Summary**  
**Christa McAuliffe**  
**February 26, 2022**

Sample Name	Location	Results (ppb)
CM-POE	Boiler Room	852.90
CM-POE-F	Boiler Room	486.80
CM-BF-01	Adjacent to Room 125	ND
CM-WF-02	Adjacent to Room 125	ND
CM-WF-03	Adjacent to Room 125	1.735
CM-WF-04	Adjacent to Room 125	2.842
CM-S-06	Faculty B	0.3560
CM-WF-08	Across Room 115	4.079
CM-WF-09	Across Room 115	38.53
CM-WF-09-F	Across Room 115	41.77
CM-WF-10	Across Room 115	2.357
CM-WF-11	Across Room 115	24.24
CM-WF-11-F	Across Room 115	1.959
CM-WF-12	Across Room 115	10.12
CM-WF-13	Across Room 111	3.070
CM-WF-14	Across Room 111	1.898
CM-WF-15	Across Room 111	1.074
CM-WF-16	Across Room 111	2.442
CM-WF-17	Across Room 111	ND
CM-BF-18	Across Room 111	0.7431
CM-WF-19	Across Room 111	5.699

**Table 1**  
**Analytical Results Summary**  
**Christa McAuliffe**  
**February 26, 2022**

Sample Name	Location	Results (ppb)
CM-WF-20	Adjacent Room 129	3.931
CM-WF-21	Adjacent Room 129	9.285
<b>CM-WF-22</b>	<b>Adjacent Room 129</b>	<b>95.67</b>
CM-WF-22-F	Adjacent Room 129	11.10
CM-S-23	Room 127	1.575
CM-S-24	Room 127	0.8453
CM-S-25	Room 127	1.075
CM-S-26	Room 127	0.6210
CM-S-27	Room 127	0.7619
CM-S-28	Room 127	ND
CM-S-29	Room 127	0.3734
CM-WF-30	Adjacent Nurse	1.182
CM-WF-31	Adjacent Nurse	2.428
CM-S-32	Nurse's Office	0.6252
CM-S-33	Between Room 214 & 215	0.5694
CM-WF-34	Across Room 214	ND
CM-BF-35	Across Room 214	ND
CM-WF-36	Across Room 214	1.266
CM-WF-37	Across Room 214	1.312
<b>CM-WF-38</b>	<b>Across Room 214</b>	<b>25.32</b>
CM-WF-38-F	Across Room 214	7.833
CM-WF-39	Across Room 214	1.187
CM-S-40	Room 214-A	8.442
CM-WF-41	Across Room 209	0.3610
<b>CM-WF-42</b>	<b>Across Room 209</b>	<b>15.73</b>
CM-WF-42-F	Across Room 209	2.909
CM-WF-43	Across Room 209	1.918
CM-WF-45	Across Room 209	1.660
<b>CM-S-46</b>	<b>Room 209</b>	<b>24.11</b>
CM-S-46-F	Room 209	1.961
CM-S-47	Faculty Lounge	0.3660
CM-WF-48	Cafeteria Hall	9.659

**Table 1**  
**Analytical Results Summary**  
**Christa McAuliffe**  
**February 26, 2022**

Sample Name	Location	Results (ppb)
CM-BF-49	Cafeteria Hall	ND
CM-WF-50	Cafeteria Hall	ND
CM-WF-51	Cafeteria Hall	8.012
CM-WF-52	Cafeteria Hall	4.508
CM-S-53	Cafeteria	2.435
CM-S-54	Cafeteria	3.743
CM-S-55	Cafeteria	1.403
CM-S-56	Cafeteria	1.289
CM-IM-57	Cafeteria	ND
CM-WF-58	Gym	1.771
CM-WF-59	Gym	5.312
CM-WF-60	Gym	5.549
CM-WF-61	Gym	1.702
CM-WF-62	Gym	1.832
CM-WF-63	Gym	2.380

**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 Christa McAuliffe Middle School. Specifically, water from the following outlets had exceedances:

- CM-POE, initial draw, 852.90 ppb
- CM-POE-F, second draw, 486.80 ppb
- CM-WF-09, initial draw, 38.53 ppb
- CM-WF-09-F, second draw, 41.77 ppb
- CM-WF-11, initial draw, 24.24 ppb
- CM-WF-22, initial draw, 95.67 ppb
- CM-WF-38, initial draw, 25.32 ppb
- CM-WF-42, initial draw, 15.73 ppb
- CM-WF-46, initial draw, 24.11 ppb

## **6.0 RECOMMENDATIONS**

---

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

- For 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 lead-leaching 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 accordance 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, the Jackson Township Board of Education 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](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**

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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**

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Partner performed lead-in-drinking water sampling at 35 South Hope Chapel Road, Jackson, 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.**



Anastassia Swenticky  
Project Assessor

Reviewed by:



Daniel Bracey, CSP, CHMM  
Senior Project Manager

**APPENDIX A: LABORATORY ANALYSIS AND CHAIN OF CUSTODY**

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## ANALYTICAL REPORT

Lab Number:	L2210402
Client:	Partner Engineering & Science, Inc. 611 Industrial Way W. Eatontown, NJ 07724
ATTN:	Dan Bracey
Phone:	(732) 380-1700
Project Name:	JACKSON BOE
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).

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

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

Serial\_No:03212213:50

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2210402-01	CM-POE	DW	CHRISTA MCAULIFFE	02/26/22 09:56	02/28/22
L2210402-02	CM-POE-F	DW	CHRISTA MCAULIFFE	02/26/22 09:57	02/28/22
L2210402-03	CM-BF-01	DW	CHRISTA MCAULIFFE	02/26/22 10:00	02/28/22
L2210402-04	CM-BF-01-F	DW	CHRISTA MCAULIFFE	02/26/22 10:00	02/28/22
L2210402-05	CM-WF-02	DW	CHRISTA MCAULIFFE	02/26/22 10:01	02/28/22
L2210402-06	CM-WF-02-F	DW	CHRISTA MCAULIFFE	02/26/22 10:01	02/28/22
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L2210402-12	CM-S-06-F	DW	CHRISTA MCAULIFFE	02/26/22 10:17	02/28/22
L2210402-13	CM-WF-08	DW	CHRISTA MCAULIFFE	02/26/22 10:18	02/28/22
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L2210402-15	CM-WF-09	DW	CHRISTA MCAULIFFE	02/26/22 10:19	02/28/22
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Page#3021294	CM-WF-13-F	DW	CHRISTA MCAULIFFE		

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L2210402-40	CM-WF-21-F	DW	CHRISTA MCAULIFFE	02/26/22 10:36	02/28/22
L2210402-41	CM-WF-22	DW	CHRISTA MCAULIFFE	02/26/22 10:37	02/28/22
L2210402-42	CM-WF-22-F	DW	CHRISTA MCAULIFFE	02/26/22 10:37	02/28/22
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L2210402-49	CM-S-26	DW	CHRISTA MCAULIFFE	02/26/22 10:41	02/28/22
L2210402-50	CM-S-26-F	DW	CHRISTA MCAULIFFE	02/26/22 10:41	02/28/22
L2210402-51	CM-S-27	DW	CHRISTA MCAULIFFE	02/26/22 10:42	02/28/22
Page 3 of 106	CM-S-27-F	DW	CHRISTA MCAULIFFE	02/26/22 10:42	02/28/22
L2210402-52					

Alpha Sample ID	Client ID	Matrix	Collection Date/Time	Receive Date
		Sample Location		
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L2210402-55	CM-S-29	DW	02/26/22 10:44	02/28/22
L2210402-56	CM-S-29-F	DW	02/26/22 10:44	02/28/22
L2210402-57	CM-WF-30	DW	02/26/22 10:49	02/28/22
L2210402-58	CM-WF-30-F	DW	02/26/22 10:49	02/28/22
L2210402-59	CM-WF-31	DW	02/26/22 10:50	02/28/22
L2210402-60	CM-WF-31-F	DW	02/26/22 10:50	02/28/22
L2210402-61	CM-S-32	DW	02/26/22 10:51	02/28/22
L2210402-62	CM-S-32-F	DW	02/26/22 10:52	02/28/22
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L2210402-73	CM-WF-38	DW	02/26/22 11:04	02/28/22
L2210402-74	CM-WF-38-F	DW	02/26/22 11:04	02/28/22
L2210402-75	CM-WF-39	DW	02/26/22 11:05	02/28/22
L2210402-76	CM-WF-39-F	DW	02/26/22 11:06	02/28/22
L2210402-77	CM-S-40	DW	02/26/22 11:07	02/28/22
L2210402-78	CM-S-40-F	DW	02/26/22 11:07	02/28/22
L2210402-79	CM-WF-41	DW	02/26/22 11:08	02/28/22
Page 4 of 106	CM-WF-41-F	DW	02/26/22 11:09	02/28/22
L2210402-80	CM-WF-41-F			

Alpha Sample ID	Client ID	Sample Location	Matrix	Collection Date/Time	Receive Date
L2210402-81	CM-WF-42	CHRISTA MCAULIFFE	DW	02/26/22 11:09	02/28/22
L2210402-82	CM-WF-42-F	CHRISTA MCAULIFFE	DW	02/26/22 11:10	02/28/22
L2210402-83	CM-WF-43	CHRISTA MCAULIFFE	DW	02/26/22 11:11	02/28/22
L2210402-84	CM-WF-43-F	CHRISTA MCAULIFFE	DW	02/26/22 11:12	02/28/22
L2210402-85	CM-WF-45	CHRISTA MCAULIFFE	DW	02/26/22 11:13	02/28/22
L2210402-86	CM-WF-45-F	CHRISTA MCAULIFFE	DW	02/26/22 11:13	02/28/22
L2210402-87	CM-S-46	CHRISTA MCAULIFFE	DW	02/26/22 11:14	02/28/22
L2210402-88	CM-S-46-F	CHRISTA MCAULIFFE	DW	02/26/22 11:14	02/28/22
L2210402-89	CM-S-47	CHRISTA MCAULIFFE	DW	02/26/22 11:16	02/28/22
L2210402-90	CM-S-47-F	CHRISTA MCAULIFFE	DW	02/26/22 11:16	02/28/22
L2210402-91	CM-WF-48	CHRISTA MCAULIFFE	DW	02/26/22 11:24	02/28/22
L2210402-92	CM-BF-49	CHRISTA MCAULIFFE	DW	02/26/22 11:26	02/28/22
L2210402-93	CM-WF-48-F	CHRISTA MCAULIFFE	DW	02/26/22 11:25	02/28/22
L2210402-94	CM-BF-49-F	CHRISTA MCAULIFFE	DW	02/26/22 11:27	02/28/22
L2210402-95	CM-WF-50	CHRISTA MCAULIFFE	DW	02/26/22 11:26	02/28/22
L2210402-96	CM-WF-50-F	CHRISTA MCAULIFFE	DW	02/26/22 11:27	02/28/22
L2210402-97	CM-WF-51	CHRISTA MCAULIFFE	DW	02/26/22 11:30	02/28/22
L2210402-98	CM-WF-51-F	CHRISTA MCAULIFFE	DW	02/26/22 11:31	02/28/22
L2210402-99	CM-WF-52	CHRISTA MCAULIFFE	DW	02/26/22 11:32	02/28/22
L2210402-100	CM-WF-52-F	CHRISTA MCAULIFFE	DW	02/26/22 11:33	02/28/22
L2210402-101	CM-S-53	CHRISTA MCAULIFFE	DW	02/26/22 11:34	02/28/22
L2210402-102	CM-S-53-F	CHRISTA MCAULIFFE	DW	02/26/22 11:35	02/28/22
L2210402-103	CM-S-54	CHRISTA MCAULIFFE	DW	02/26/22 11:35	02/28/22
L2210402-104	CM-S-54-F	CHRISTA MCAULIFFE	DW	02/26/22 11:36	02/28/22
L2210402-105	CM-S-55	CHRISTA MCAULIFFE	DW	02/26/22 11:36	02/28/22
L2210402-106	CM-S-55-F	CHRISTA MCAULIFFE	DW	02/26/22 11:37	02/28/22
L2210402-107	CM-S-56	CHRISTA MCAULIFFE	DW	02/26/22 11:37	02/28/22
Page 5 of 106	CM-S-56-F	CHRISTA MCAULIFFE	DW	02/26/22 11:37	02/28/22
L2210402-108					

Alpha Sample ID	Client ID	Sample Location	Matrix	Collection Date/Time	Receive Date
L2210402-109	CM-IM-57	CHRISTA MCAULIFFE	DW	02/26/22 11:39	02/28/22
L2210402-110	CM-IM-57-F	CHRISTA MCAULIFFE	DW	02/26/22 11:39	02/28/22
L2210402-111	CM-WF-58	CHRISTA MCAULIFFE	DW	02/26/22 11:42	02/28/22
L2210402-112	CM-WF-58-F	CHRISTA MCAULIFFE	DW	02/26/22 11:43	02/28/22
L2210402-113	CM-WF-59	CHRISTA MCAULIFFE	DW	02/26/22 11:43	02/28/22
L2210402-114	CM-WF-59-F	CHRISTA MCAULIFFE	DW	02/26/22 11:44	02/28/22
L2210402-115	CM-WF-60	CHRISTA MCAULIFFE	DW	02/26/22 11:44	02/28/22
L2210402-116	CM-WF-60-F	CHRISTA MCAULIFFE	DW	02/26/22 11:45	02/28/22
L2210402-117	CM-WF-61	CHRISTA MCAULIFFE	DW	02/26/22 11:46	02/28/22
L2210402-118	CM-WF-61-F	CHRISTA MCAULIFFE	DW	02/26/22 11:47	02/28/22
L2210402-119	CM-WF-62	CHRISTA MCAULIFFE	DW	02/26/22 11:47	02/28/22
L2210402-120	CM-WF-62-F	CHRISTA MCAULIFFE	DW	02/26/22 11:48	02/28/22
L2210402-121	CM-WF-63	CHRISTA MCAULIFFE	DW	02/26/22 11:49	02/28/22
L2210402-122	CM-WF-63-F	CHRISTA MCAULIFFE	DW	02/26/22 11:50	02/28/22

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**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 ( $4 \pm 2^\circ \text{ C}$ )?	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 BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**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.

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**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**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.

#### Sample Receipt

L2210402-54: The collection date and time on the chain of custody was 26-FEB-22 10:43; however, the collection date/time on the container label was 26-FEB-22 10:48. At the client's request, the collection date/time is reported as 26-FEB-22 10:43.

#### 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.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 03/21/22

## METALS



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-01  
Client ID: CM-POE  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 09:56  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	852.9		ug/l	10.00	3.430	10	03/04/22 10:27	03/07/22 14:52	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-02  
 Client ID: CM-POE-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 09:57  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	486.8		ug/l	10.00	3.430	10	03/16/22 07:46	03/17/22 13:50	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-03  
Client ID: CM-BF-01  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:00  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:08	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-05  
 Client ID: CM-WF-02  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:01  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:11	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-07  
Client ID: CM-WF-03  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:07  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.735		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:14	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-09  
Client ID: CM-WF-04  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:09  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.842		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:17	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-11  
Client ID: CM-S-06  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:15  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.3560	J	ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:20	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-13  
Client ID: CM-WF-08  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:17  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	4.079		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:23	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-15  
 Client ID: CM-WF-09  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:18  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	38.53		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:26	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-16  
 Client ID: CM-WF-09-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:19  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	41.77		ug/l	1.000	0.3430	1	03/16/22 07:46	03/16/22 22:34	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-17  
 Client ID: CM-WF-10  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:20  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.357		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:56	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-19  
 Client ID: CM-WF-11  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:21  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	24.24		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 14:59	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-20  
 Client ID: CM-WF-11-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:22  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.959		ug/l	1.000	0.3430	1	03/16/22 07:46	03/16/22 22:43	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-21  
Client ID: CM-WF-12  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:23  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	10.12		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 15:02	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-23  
Client ID: CM-WF-13  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:26  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	3.070		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 15:05	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-25  
Client ID: CM-WF-14  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:28  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.898		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 15:08	EPA 3005A	3,200.8	CD



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-27  
Client ID: CM-WF-15  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:29  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.074		ug/l	1.000	0.3430	1	03/04/22 10:27	03/07/22 15:11	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-29  
Client ID: CM-WF-16  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:30  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.442		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 22:45	EPA 3005A	3,200.8	WP



**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-31  
 Client ID: CM-WF-17  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:32  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:00	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-32  
Client ID: CM-BF-18  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:32  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.7431	J	ug/l	1.000	0.3430	1	03/09/22 09:14	03/09/22 19:49	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-35  
 Client ID: CM-WF-19  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:34  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	5.699		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:05	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-37  
Client ID: CM-WF-20  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:35  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	3.931		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:10	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-39  
Client ID: CM-WF-21  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:36  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	9.285		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:26	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-41  
Client ID: CM-WF-22  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:37  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	95.67		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:31	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-42  
 Client ID: CM-WF-22-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:37  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	11.10		ug/l	1.000	0.3430	1	03/09/22 09:14	03/09/22 20:21	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-43  
 Client ID: CM-S-23  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:38  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.575		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:36	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-45  
Client ID: CM-S-24  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:39  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.8453	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:41	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-47  
 Client ID: CM-S-25  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:40  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.075		ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:46	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-49  
 Client ID: CM-S-26  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:41  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.6210	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:51	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-51  
Client ID: CM-S-27  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:42  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.7619	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 23:57	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-53  
Client ID: CM-S-28  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:43  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:02	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-55  
Client ID: CM-S-29  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:44  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.3734	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:07	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-57  
 Client ID: CM-WF-30  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:49  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.182		ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:12	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-59  
 Client ID: CM-WF-31  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:50  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.428		ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:28	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-61  
 Client ID: CM-S-32  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:51  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.6252	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:33	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-63  
Client ID: CM-S-33  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:53  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.5694	J	ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:38	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-65  
 Client ID: CM-WF-34  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:55  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:43	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-66  
 Client ID: CM-BF-35  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:55  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:06	03/07/22 00:48	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-69  
 Client ID: CM-WF-36  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 10:57  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.266		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:32	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-71  
Client ID: CM-WF-37  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:02  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.312		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:41	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-73  
Client ID: CM-WF-38  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:04  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	25.32		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:53	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-74  
 Client ID: CM-WF-38-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:04  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	7.833		ug/l	1.000	0.3430	1	03/11/22 09:52	03/13/22 14:18	EPA 3005A	3,200.8	WP

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-75  
Client ID: CM-WF-39  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:05  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.187		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:03	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-77  
 Client ID: CM-S-40  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:07  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	8.442		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:06	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-79  
 Client ID: CM-WF-41  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:08  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.3610	J	ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:09	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-81  
 Client ID: CM-WF-42  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:09  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	15.73		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:12	EPA 3005A	3,200.8	CD



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-82  
Client ID: CM-WF-42-F  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:10  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.909		ug/l	1.000	0.3430	1	03/11/22 09:52	03/13/22 14:22	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-83  
 Client ID: CM-WF-43  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:11  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.918		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:15	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-85  
 Client ID: CM-WF-45  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:13  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.660		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:18	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE**Lab Number:** L2210402**Project Number:** 21-327918.1**Report Date:** 03/21/22**SAMPLE RESULTS**

Lab ID: L2210402-87  
 Client ID: CM-S-46  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:14  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	24.11		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:21	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-88  
 Client ID: CM-S-46-F  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:14  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.961		ug/l	1.000	0.3430	1	03/11/22 09:52	03/13/22 14:26	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-89  
 Client ID: CM-S-47  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:16  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	0.3660	J	ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:24	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-91  
Client ID: CM-WF-48  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:24  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	9.659		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:28	EPA 3005A	3,200.8	CD



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-92  
Client ID: CM-BF-49  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:26  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:31	EPA 3005A	3,200.8	CD



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-95  
 Client ID: CM-WF-50  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:26  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:46	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-97  
Client ID: CM-WF-51  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:30  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	8.012		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:49	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-99  
Client ID: CM-WF-52  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:32  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	4.508		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 16:52	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-101

Date Collected: 02/26/22 11:34

Client ID: CM-S-53

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.435		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:14	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-103

Date Collected: 02/26/22 11:35

Client ID: CM-S-54

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	3.743		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:44	EPA 3005A	3,200.8	CD

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-105

Date Collected: 02/26/22 11:36

Client ID: CM-S-55

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.403		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:47	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-107  
Client ID: CM-S-56  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:37  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.289		ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 15:50	EPA 3005A	3,200.8	CD

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-109  
Client ID: CM-IM-57  
Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:39  
Date Received: 02/28/22  
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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:31	EPA 3005A	3,200.8	WP

Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-111  
 Client ID: CM-WF-58  
 Sample Location: CHRISTA MCAULIFFE

Date Collected: 02/26/22 11:42  
 Date Received: 02/28/22  
 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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.771		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:15	EPA 3005A	3,200.8	WP



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-113

Date Collected: 02/26/22 11:43

Client ID: CM-WF-59

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	5.312		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:27	EPA 3005A	3,200.8	WP



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-115

Date Collected: 02/26/22 11:44

Client ID: CM-WF-60

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	5.549		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:35	EPA 3005A	3,200.8	WP



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-117

Date Collected: 02/26/22 11:46

Client ID: CM-WF-61

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.702		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:47	EPA 3005A	3,200.8	WP



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-119

Date Collected: 02/26/22 11:47

Client ID: CM-WF-62

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	1.832		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:51	EPA 3005A	3,200.8	WP



Project Name: JACKSON BOE

Lab Number: L2210402

Project Number: 21-327918.1

Report Date: 03/21/22

**SAMPLE RESULTS**

Lab ID: L2210402-121

Date Collected: 02/26/22 11:49

Client ID: CM-WF-63

Date Received: 02/28/22

Sample Location: CHRISTA MCAULIFFE

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
<b>Total Metals - Mansfield Lab</b>											
Lead, Total	2.380		ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 17:55	EPA 3005A	3,200.8	WP



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**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	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03,05,07,09,11,13,15,17,19,21,23,25,27 Batch: WG1610028-1									
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 Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66 Batch: WG1610050-1									
Lead, Total	ND	ug/l	1.000	0.3430	1	03/05/22 23:06	03/06/22 22:24	3,200.8	WP

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107 Batch: WG1610052-1									
Lead, Total	ND	ug/l	1.000	0.3430	1	03/05/22 23:20	03/07/22 14:46	3,200.8	CD

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 109,111,113,115,117,119,121 Batch: WG1610053-1									
Lead, Total	ND	ug/l	1.000	0.3430	1	03/05/22 23:34	03/07/22 16:59	3,200.8	WP



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b> for sample(s): 32,42 Batch: WG1612739-1									
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 Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b> for sample(s): 74,82,88 Batch: WG1613804-1									
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 Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b> for sample(s): 02,16,20 Batch: WG1615311-1									
Lead, Total	ND	ug/l	1.000	0.3430	1	03/16/22 07:46	03/16/22 21:27	3,200.8	WP

### Prep Information

Digestion Method: EPA 3005A



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

Parameter	LCS	%Recovery	Qual	LCSD	%Recovery	Qual	%Recovery	Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23,25,27											
Lead, Total	93	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66											
Lead, Total	93	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107											
Lead, Total	94	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 109,111,113,115,117,119,121											
Lead, Total	98	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 32,42											
Lead, Total	95	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 74,82,88											
Lead, Total	94	-						85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 02,16,20											
Lead, Total	110	-						85-115	-		

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

Parameter	Native Sample	MS Added	MS Found	% Recovery	Qual	MSD Found	% Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66									QC Batch ID: WG1610050-3	QC Sample:		
L2210402-29 Client ID: CM-WF-16	2.442	530	504.9	95		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66									QC Batch ID: WG1610050-5	QC Sample:		
L2210402-31 Client ID: CM-WF-17	ND	530	488.7	92		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107									QC Batch ID: WG1610052-3	QC		
Sample: L2210402-69 Client ID: CM-WF-36	1.266	530	508.8	96		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107									QC Batch ID: WG1610052-5	QC		
Sample: L2210402-71 Client ID: CM-WF-37	1.312	530	516.2	97		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 109,111,113,115,117,119,121									QC Batch ID: WG1610053-3	QC Sample: L2210402-111	Client ID:	
CM-WF-58	1.771	530	499.4	94		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 109,111,113,115,117,119,121									QC Batch ID: WG1610053-5	QC Sample: L2210402-113	Client ID:	
CM-WF-59	5.312	530	497.6	93		-	-	-	70-130	-	20	
Lead, Total												
Total Metals - Mansfield Lab Associated sample(s): 74,82,88									QC Batch ID: WG1613804-5	QC Sample: L2210402-74	Client ID: CM-WF-38-F	
Lead, Total	7.833	530	488.9	91		-	-	-	70-130	-	20	

## Lab Duplicate Analysis

**Batch Quality Control**

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): L2210402-29 Client ID: CM-WF-16	29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66					QC Sample: WG1610050-4
Lead, Total	2.442	2.459	ug/l	1		20
Total Metals - Mansfield Lab Associated sample(s): L2210402-31 Client ID: CM-WF-17	29,31,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65-66					QC Sample: WG1610050-6
Lead, Total	ND	ND	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): Sample: L2210402-69 Client ID: CM-WF-36	69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107					QC Batch ID: WG1610052-4 QC
Lead, Total	1.266	1.295	ug/l	2		20
Total Metals - Mansfield Lab Associated sample(s): Sample: L2210402-71 Client ID: CM-WF-37	69,71,73,75,77,79,81,83,85,87,89,91-92,95,97,99,101,103,105,107					QC Batch ID: WG1610052-6 QC
Lead, Total	1.312	1.166	ug/l	12		20
Total Metals - Mansfield Lab Associated sample(s): CM-WF-58	109,111,113,115,117,119,121					QC Sample: L2210402-111 Client ID:
Lead, Total	1.771	1.808	ug/l	2		20
Total Metals - Mansfield Lab Associated sample(s): CM-WF-59	109,111,113,115,117,119,121					QC Sample: L2210402-113 Client ID:
Lead, Total	5.312	5.289	ug/l	0		20
Total Metals - Mansfield Lab Associated sample(s):	74,82,88	QC Batch ID: WG1613804-6	QC Sample: L2210402-74 Client ID: CM-WF-38-F			
Lead, Total	7.833	7.561	ug/l	4		20

Were project specific reporting limits specified?

NO

**Sample Receipt and Container Information**

<b>Cooler Information</b>			<b>Custody Seal</b>			<b>Container Information</b>			<b>Frozen Date/Time</b>			<b>Analysis(*)</b>		
<b>Cooler</b>	<b>Cooler</b>	<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>
A	A	L2210402-01A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-02A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
C	C	L2210402-03A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-04A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-05A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-06A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-07A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-08A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-09A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-10A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-101A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-102A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-103A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-104A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-105A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-106A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-107A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-108A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-109A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				
	Absent	L2210402-10A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-110A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)				
	Absent	L2210402-111A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)				

\*Values in parentheses indicate holding time in days

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

Serial\_No:03212213:50  
**Lab Number:** L2210402  
**Report Date:** 03/21/22

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210402-112A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-113A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-114A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-115A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-116A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-117A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-118A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-119A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-11A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-120A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-121A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-122A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)
L2210402-12A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-13A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-14A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-15A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-16A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-17A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-18A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-19A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-20A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-21A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-22A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-23A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-24A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-25A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)
L2210402-26A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)
L2210402-27A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)

\*Values in parentheses indicate holding time in days

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

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**Report Date:** 03/21/22

Container Information			Cooler	Initial pH	Final Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2210402-28A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-29A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-30A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-31A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-32A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-33A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-34A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-35A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-36A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-37A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-38A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-39A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-40A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-41A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-42A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-43A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-44A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-45A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-46A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-47A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-48A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-49A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-50A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-51A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-52A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-53A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-54A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-55A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	

\*Values in parentheses indicate holding time in days

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

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**Lab Number:** L2210402  
**Report Date:** 03/21/22

Container Information			Cooler	Initial pH	Final Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2210402-56A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-57A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-58A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-59A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-60A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-61A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-62A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-63A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-64A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-65A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-66A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-67A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-68A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-69A	Plastic 250ml HNO3 preserved	C	<2	<2	5.8	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-70A	Plastic 250ml HNO3 preserved	A	<2	<2	5.8	Y	Absent	PB-2008T-PPB(180)	
L2210402-71A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-72A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-73A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-74A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-75A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-76A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-77A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-78A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-79A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-80A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-81A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-82A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-83A	Plastic 250ml HNO3 preserved	C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	

\*Values in parentheses indicate holding time in days

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

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**Lab Number:** L2210402  
**Report Date:** 03/21/22

Container Information			Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type									
L2210402-84A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-85A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-86A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-87A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-88A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-89A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-90A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-91A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-92A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-93A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-94A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-95A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-96A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-97A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	
L2210402-98A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	HOLD-METAL-TOTAL(180)	
L2210402-99A	Plastic 250ml HNO3 preserved		C	<2	<2	3.3	Y	Absent	PB-2008T-PPB(180)	

\*Values in parentheses indicate holding time in days

**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

## 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

- 1 - 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 Water-preserved 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(ah)+(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, PFDA 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 concentration found in the blank. For DOD-related projects, 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 AND 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.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**Report Date:** 03/21/22

**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.)

*Report Format: DU Report with 'J' Qualifiers*



**Project Name:** JACKSON BOE  
**Project Number:** 21-327918.1

**Lab Number:** L2210402  
**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 its 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

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**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: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine. SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**Mansfield Facility**

**SM 2540D**: TSS

EPA 8082A: NPW: 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

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**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, 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, 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**

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



<b>NEW JERSEY CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tenafly, NJ 07670: 275 Cooper Ave, Suite 105		Page <u>2</u> of <u>3</u>	Date Rec'd In Lab <u>2/28/22</u>	ALPHA Job # <u>U2210402</u>																																															
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<p><b>Client Information</b></p> <p>Client: Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Email:</p>		<p>Project Name: <u>SJS Project</u></p> <p>Project Location:</p> <p>Project #:</p> <p>(Use Project name as Project #) <input type="checkbox"/></p> <p>Project Manager: ALPHAAQuote #: <u></u></p> <p>Turn-Around Time</p> <p>Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: <u></u></p>	<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	<input type="checkbox"/> Same as Client Info <input type="checkbox"/> PO #																																																	
<p><b>Site Information</b></p> <p>Site Requirements</p> <p>Is this site impacted by Petroleum? <input type="checkbox"/> Yes <input type="checkbox"/></p> <p>Petroleum Product:</p>		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IJGW SPLP Leachate Criteria <input type="checkbox"/> Other																																																			
<p>These samples have been previously analyzed by Alpha</p> <p>For EPH, selection is REQUIRED:</p> <p><input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2</p>		<p>For VOC, selection is REQUIRED:</p> <p><input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011</p> <p>Please specify Metals or TAL.</p>	<p><b>ANALYSIS</b></p> <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Collection Date</th> <th>Time</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td><u>CNA-005</u></td> <td><u>2/26/22</u></td> <td><u>X</u></td> <td><u>water</u></td> <td><u>NS</u></td> <td></td> </tr> <tr> <td>11</td> <td><u>CNA-S-09</u></td> <td><u>10:15</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td><u>CNA-S-06-F</u></td> <td><u>10:15</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td><u>CNA-WFC-08</u></td> <td><u>10:16</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td><u>CNA-WFC-08-F</u></td> <td><u>10:17</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td><u>CNA-WFC-09</u></td> <td><u>10:18</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td><u>CNA-WFC-09-F</u></td> <td><u>10:19</u></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Comments	<u>CNA-005</u>	<u>2/26/22</u>	<u>X</u>	<u>water</u>	<u>NS</u>		11	<u>CNA-S-09</u>	<u>10:15</u>				12	<u>CNA-S-06-F</u>	<u>10:15</u>				13	<u>CNA-WFC-08</u>	<u>10:16</u>				14	<u>CNA-WFC-08-F</u>	<u>10:17</u>				15	<u>CNA-WFC-09</u>	<u>10:18</u>				16	<u>CNA-WFC-09-F</u>	<u>10:19</u>			
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16	<u>CNA-WFC-09-F</u>	<u>10:19</u>																																																			
<p>Preservative Code:</p> <p>A = None B = HCl C = HNO<sub>3</sub> D = H<sub>2</sub>SO<sub>4</sub> E = NaOH F = MeOH G = NaHSO<sub>4</sub> H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> I = Zn Ac/NaOH O = Other</p>		<p>Container Code</p> <p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p> <p>Preservative <u>C</u></p>	<p>Container Type <u>R</u></p> <p>Received By: <u>M-T</u></p> <p>Date/Time <u>2/28/22 9:00am</u></p>																																																		
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<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 43:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 44:00</u></p>																																																		
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<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 63:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 64:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 65:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 66:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 67:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 68:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 69:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 70:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 71:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 72:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 73:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 74:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 75:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 76:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 77:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 78:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 79:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 80:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 81:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 82:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 83:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 84:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 85:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 86:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 87:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 88:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 89:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 90:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 91:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 92:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 93:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 94:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 95:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 96:00</u></p>																																																		
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<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 103:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 104:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 105:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 106:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 107:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 108:00</u></p>																																																		
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<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 115:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 116:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 117:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 118:00</u></p>																																																		
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<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 121:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 122:00</u></p>																																																		
<p>Relinquished By:</p> <p><u>John J.</u></p>		<p>Preservative <u>C</u></p>	<p>Date/Time <u>2/29/22 123:00</u></p> <p>Received By: <u>John J.</u></p> <p>Date/Time <u>2/29/22 124:00</u></p>																																																		
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<b>NEW JERSEY CHAIN OF CUSTODY</b>  Mansfield, MA 02048 320 Forbes Blvd TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14205: 275 Cooper Ave, Suite 105		Page <u>5</u> of <u>23</u>	Date Rec'd in Lab <u>2/28/22</u>	ALPHA Job # <u>L2210402</u>																																																																																		
<b>Project Information</b> <table border="1"> <tr> <td colspan="2">           Project Name:  <u>Sample Project 1</u> </td> <td colspan="2">           Project Location:  <u>Sample Project 1</u> </td> <td colspan="3">           Deliverables  <input type="checkbox"/> NJ Full / Reduced  <input type="checkbox"/> EQuIS (1 File)  <input type="checkbox"/> EQuIS (4 File)  <input type="checkbox"/> Other         </td> </tr> <tr> <td colspan="2">           Client:            Address:            Phone:            Fax:            Email:            These samples have been previously analyzed by Alpha         </td> <td colspan="2">           Project Manager:            ALPHAQuote #: <u></u> </td> <td colspan="3">           Regulatory Requirement  <input type="checkbox"/> SRS Residential/Non Residential  <input type="checkbox"/> SRS Impact to Groundwater  <input type="checkbox"/> NJ Ground Water Quality Standards  <input type="checkbox"/> NJ IGW SPLP Leachate Criteria  <input type="checkbox"/> Other         </td> </tr> <tr> <td colspan="2">           Turn-Around Time            Standard <input type="checkbox"/>            Rush (only if pre approved) <input type="checkbox"/> </td> <td colspan="2">           Due Date:            # of Days: <u></u> </td> <td colspan="3">           Site Information            Is this site impacted by Petroleum? Yes <input type="checkbox"/>            Petroleum Product:         </td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="3">           (Please Specify below)         </td> </tr> </table>							Project Name: <u>Sample Project 1</u>		Project Location: <u>Sample Project 1</u>		Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other			Client: Address: Phone: Fax: Email: These samples have been previously analyzed by Alpha		Project Manager: ALPHAQuote #: <u></u>		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other			Turn-Around Time Standard <input type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/>		Due Date: # of Days: <u></u>		Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:							(Please Specify below)																																																								
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<b>ANALYSIS</b> <table border="1"> <thead> <tr> <th rowspan="2">For VOC, selection is REQUIRED:</th> <th rowspan="2">For VOC, selection is REQUIRED:</th> <th colspan="5">Other project specific requirements/comments:</th> </tr> <tr> <th colspan="5">           Please specify Metals or TAL.  <u>1,4-Dioxane</u>  <u>8011</u> </th> </tr> </thead> <tbody> <tr> <td>10402-37</td> <td>CWU-S-24F-2D</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>38</td> <td>CWU-WF-2D-F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>39</td> <td>CWU-WF-2D-F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>40</td> <td>CWU-WF-2D-F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>41</td> <td>CWU-WF-2D-F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>42</td> <td>CWU-WF-2D-F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>43</td> <td>CWU-S-23F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>44</td> <td>CWU-S-23F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>45</td> <td>CWU-S-24F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> <tr> <td>46</td> <td>CWU-S-24F</td> <td>Collection Date: <u>2/26/22</u></td> <td>Time: <u>10:35</u></td> <td>Sample Matrix: <u>water</u></td> <td>Sampler's Initials: <u>NS</u></td> <td>Sample Matrix: <u>water</u></td> </tr> </tbody> </table>							For VOC, selection is REQUIRED:	For VOC, selection is REQUIRED:	Other project specific requirements/comments:					Please specify Metals or TAL. <u>1,4-Dioxane</u> <u>8011</u>					10402-37	CWU-S-24F-2D	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	38	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	39	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	40	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	41	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	42	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	43	CWU-S-23F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	44	CWU-S-23F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	45	CWU-S-24F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>	46	CWU-S-24F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>
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39	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
40	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
41	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
42	CWU-WF-2D-F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
43	CWU-S-23F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
44	CWU-S-23F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
45	CWU-S-24F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
46	CWU-S-24F	Collection Date: <u>2/26/22</u>	Time: <u>10:35</u>	Sample Matrix: <u>water</u>	Sampler's Initials: <u>NS</u>	Sample Matrix: <u>water</u>																																																																																		
Preservative Code: Westboro: Certification No: MA935 A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> H = Zn Ac/NaOH O = Other V = Vial G = Glass B = Bacteria Cup C = Cube E = Encore D = BOD Bottle																																																																																								
Relinquished By: <u>A. Johnson</u> <u>mt</u>		Date/Time Received By: <u>2/28/22 7:00AM</u> <u>mt</u>		Date/Time <u>2/28/22 13:30</u> <u>mt</u>																																																																																				
Relinquished By: <u>D. Johnson</u> <u>mt</u>		Date/Time Received By: <u>2/28/22 13:30</u> <u>mt</u>		Date/Time <u>2/28/22 13:30</u> <u>mt</u>																																																																																				
Form No: 01-14 HC (rev. 30-Sept-2013) Page 98 of 106																																																																																								

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

 <b>NEW JERSEY CHAIN OF CUSTODY</b> Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-3300 FAX: 508-822-3288		Service Centers Marlboro, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tenafly, NJ 14150: 275 Cooper Ave, Suite 105		Page <u>13</u> of <u>13</u>	Date Rec'd In Lab <u>2/28/22</u>	ALPHA Job # <u>U2210402</u>
<b>Project Information</b> Project Name: Project Location: Project # (Use Project name as Project #) <input type="checkbox"/> Project Manager: ALPHAQuote #:  Phone: Turn-Around Time Standard <input type="checkbox"/> Due Date:  Fax: Rush (only if pre approved) <input type="checkbox"/> # of Days:  These samples have been previously analyzed by Alpha		<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info  <input type="checkbox"/> PO #		
<b>Client Information</b> Address:  Email:		<b>Regulatory Requirement</b> <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		<b>Site Information</b> Is this site impacted by Petroleum? Yes <input type="checkbox"/>  Petroleum Product:		
<b>ANALYSIS</b> For VOC, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		<b>Sample Filtration</b> Other project specific requirements/comments:  Please specify Metals or TAL.		<b>Sample Specific Comments</b> (Please Specify below)		
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 KIE = Zn AuNaOH O = Other		Sample ID (Lab Use Only)	Collection Date      Time Sample Matrix Sampler's Initials			
Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle M = -			Container Type <u>2</u>			
Relinquished By: <u>D. Johnson</u>		Date/Time <u>2/28/22 7:00 AM</u>	Received By: <u>MJ</u>	Date/Time <u>2/28/22 10:00 AM</u>		
Mansfield: Certification No: MA015						
Westboro: Certification No: MA935						
Form No: 01-14 HC (rev. 30-Sep-2013)						

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

 <b>NEW JERSEY CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14216: 275 Cooper Ave, Suite 105		Page <u>7</u> of <u>13</u>	Date Rec'd in Lab	<u>2/28/22</u>	ALPHA Job # <u>L220402</u>
<b>Project Information</b>							
<b>Client Information</b>		<b>Deliverables</b>					
Client: Address: Phone: Fax: Email:		<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other					
Project # <i>Sole Source</i>		<b>Regulatory Requirement</b>					
(Use Project name as Project #) <input type="checkbox"/> Project Manager: ALPHAQuote #:		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IJGW SPLP Leachate Criteria <input type="checkbox"/> Other					
Turn-Around Time  Standard <input type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/>		Due Date:  # of Days:					
<b>Site Information</b>							
Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:							
<b>Sample Filtration</b>							
Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do  (Please Specify below)							
<b>ANALYSIS</b>							
These samples have been previously analyzed by Alpha							
For EPH, selection is REQUIRED:		For VOC, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2  <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011					
Other project specific requirements/comments:		Other project specific requirements/comments:  <i>Please specify Metals or TAL.</i>					
For VOC, selection is REQUIRED:		<b>Sample ID</b>	<b>Collection</b>	<b>Sample Matrix</b>	<b>Sampler's Initials</b>	<b>Comments</b>	
For VOC, selection is REQUIRED:		10402-57  <input type="checkbox"/> CM - WF - 30  58  <input type="checkbox"/> CM - WF - 31  59  <input type="checkbox"/> CM - WF - 31-F  60  <input type="checkbox"/> CM - S - 32  61  <input type="checkbox"/> CM - S - 32-F  62  <input type="checkbox"/> CM - S - 33  63  <input type="checkbox"/> CM - S - 33-F  64  <input type="checkbox"/> CM - WF - 34  65  <input type="checkbox"/> CM - BG - 35  66	Date  21/02/22  10:49	Time  10:49	NS	Sample Specific Comments	
Preservative Code:		Container Type <input type="checkbox"/> P  Westboro: Certification No: MA935 Mansfield: Certification No: MA015					
A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> KIE = Zn Ac/NaOH O = Other		Preservative <input type="checkbox"/> C  B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle					
Relinquished By:		Received By:  <i>A. M. S.</i> <input type="checkbox"/> M.T  <i>John H.A.C.</i> <input type="checkbox"/> <i>John H.A.C.</i>					
Date/Time		Date/Time <input type="checkbox"/> 2/28/22 9:00AM  <i>2/28/22 1:33PM</i> <input type="checkbox"/> <i>2/28/22 1:33PM</i>					
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)							



NEW JERSEY CHAIN OF CUSTODY		Service Centers		Page <u>A</u> of <u>13</u>		Date Rec'd In Lab	2/28/22	ALPHA Job # <u>2210402</u>	
 Westborough, MA 01581 8 Walkup Dr. TEL: 508-822-9220 FAX: 508-822-3286		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3286		Project Information Project Name: <u>Sol Page</u> Project Location: Project # (Use Project name as Project #) <input type="checkbox"/>		Deliverables	<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> Other	Billing Information <input type="checkbox"/> Same as Client Info PO #	
Client Information Client: Address: Phone: Fax: Email:		Project Manager: ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: # of Days: Rush (only if pre approved) <input type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IJGW SPLP Leachate Criteria <input type="checkbox"/> Other		Site Information	Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: (Please Specify below)		
These samples have been previously analyzed by Alpha				ANALYSIS		Sample Filtration	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do		
For EPH, selection is REQUIRED:		For VOC, selection is REQUIRED:		Other project specific requirements/comments: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011 Please specify Metals or TAL.		Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date	Time	Sample Matrix	Sampler's Initials		
<u>10402-77</u>		<u>CW-S-U0-F</u>		<u>2/28/22</u>	<u>11:07</u>	<u>u/w</u>	<u>WS</u>		
78		<u>CW-UWF-U1</u>		<u>11:08</u>					
79		<u>CW-UWF-U1-F</u>		<u>11:09</u>					
80		<u>CW-UWF-U2</u>		<u>11:09</u>					
81		<u>CW-UWF-U2F</u>		<u>11:10</u>					
82		<u>CW-UWF-U3</u>		<u>11:11</u>					
83		<u>CW-UWF-U3-F</u>		<u>11:12</u>					
84		<u>CW-UWF-U5</u>		<u>11:13</u>					
85		<u>CW-UWF-U5-F</u>		<u>11:13</u>					
86		<u>CW-UWF-U5-F</u>		<u>11:13</u>					
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other		Westboro; Certification No: MA935 Mansfield; Certification No: MA015		Container Type	P	Received By:	Date/Time <u>MR</u> <u>2/28/22 1000</u>		
				Preservative	<u>C</u>				
				Relinquished By:	<u>T</u>	Date/Time			
				<u>2/28/22</u>	<u>9:00 AM</u>				
				<u>M</u>	<u>2/28/22 1330</u>	<u>PAUL</u>			
				<u>D</u>	<u>2/28/22</u>	<u>PAUL</u>			
				<u>O</u>	<u>2/28/22</u>	<u>PAUL</u>			
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)									



NEW JERSEY CHAIN OF CUSTODY		Service Centers		Page <u>11</u> of <u>13</u>		Date Rec'd in Lab	2/28/22	ALPHA Job # <u>C221D402</u>
 Westborough, MA 01581 6 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Project Information  Project Name: <u>alpha project</u> Project Location: <u>alpha project</u> Project # <u>alpha project</u> (Use Project name as Project #) <input type="checkbox"/> Project Manager: ALPHAQuote #: <u>alpha project</u>  Phone: <u>alpha project</u> Turn-Around Time: Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>alpha project</u>		Deliverables  <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		Billing Information  <input type="checkbox"/> Same as Client Info PO # <u>alpha project</u>		
<b>Client Information</b>		<b>Project Information</b>		<b>Regulatory Requirement</b>		<b>Site Information</b>		
Client: Address: Phone: Fax: Email:  These samples have been previously analyzed by Alpha		Project # <u>alpha project</u> (Use Project name as Project #) <input type="checkbox"/> Project Manager: ALPHAQuote #: <u>alpha project</u>  Turn-Around Time: Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>alpha project</u>		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJIGW SPLP Leachate Criteria <input type="checkbox"/> Other		Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: <u>alpha project</u>  (Please Specify below)		
<b>For EPH, selection is REQUIRED:</b>		<b>For VOC, selection is REQUIRED:</b>		<b>ANALYSIS</b>		<b>Sample Filtration</b>		
<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 (Lab Use Only)		Sample ID <u>CM - WF - S1</u> <u>2/26/2022</u> <u>11:30</u> <u>water</u> <u>NS</u>		Collection Date      Time <u>11:31</u> <u>11:32</u> <u>11:33</u> <u>11:34</u> <u>11:35</u> <u>11:36</u> <u>11:37</u> <u>11:38</u>		Sample Matrix Sampler's Initials <u>water</u> <u>NS</u>		
<u>104102 - 97</u> <u>104102 - 98</u> <u>104102 - 99</u> <u>104102 - 100</u> <u>104102 - 101</u> <u>104102 - 102</u> <u>104102 - 103</u> <u>104102 - 104</u> <u>104102 - 105</u> <u>104102 - 106</u>						Sample Specific Comments <u>water</u> <u>NS</u>		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> KIE = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteriia Cup C = Cube O = Other E = Encore D = BOD Bottle		Container Type <u>7</u>		Received By: <u>M7</u> <u>alpha</u> <u>alpha</u> <u>alpha</u> <u>alpha</u> <u>alpha</u> <u>alpha</u>		
						Date/Time <u>2/28/22 10:00</u> <u>2/28/22 13:30</u> <u>2/28/22 14:00</u> <u>2/28/22 14:30</u> <u>2/28/22 15:00</u> <u>2/28/22 15:30</u> <u>2/28/22 16:00</u>		
						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		

<b>NEW JERSEY CHAIN OF CUSTODY</b>		Service Centers Mahwah, NJ 07430: 35 Whittney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tenafly, NJ 07670: 275 Cooper Ave, Suite 105		Page <u>12</u> of <u>13</u>	Date Rec'd In Lab <u>2/28/12</u>	ALPHA Job # <u>L2210402</u>
<b>Project Information</b> Project Name: <u>Sediment</u> Project Location: <u>Sediment</u> Project # <u>Sediment</u> (Use Project name as Project #) <input type="checkbox"/>				Billing Information <input type="checkbox"/> Same as Client Info PO # <u></u>		
<b>Client Information</b> Client: Address: Phone: Fax: Email: These samples have been previously analyzed by Alpha				<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		
<b>Project Manager:</b> ALPHAQuote #: <u></u> Turn-Around Time Standard <input type="checkbox"/> Due Date: <u></u> # of Days: <u></u> Rush (only if pre approved) <input type="checkbox"/>				<b>Regulatory Requirement:</b> <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IJGW SPLP Leachate Criteria <input type="checkbox"/> Other		
<b>Site Information</b> Is this site impacted by Petroleum? <input type="checkbox"/> Petroleum Product: <u></u>				<b>Site Information</b> Is this site impacted by Petroleum? <input type="checkbox"/> Petroleum Product: <u></u>		
<b>ANALYSIS</b> For VOC, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> 1,4-Dioxane 8011 Please specify Metals or TAL.				<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)				Sample ID	Collection Date	Time
10402-107	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:37</u>	<u>Sample Matrix</u>	<u>Sampler's Initials</u>	<u>NS</u>
108	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:37</u>			
109	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:39</u>			
110	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:39</u>			
111	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:42</u>			
112	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:43</u>			
113	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:43</u>			
114	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:44</u>			
115	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:45</u>			
116	<u>Cm-S-S</u>	<u>2/14/12</u>	<u>11:45</u>			
Preservative Code:		Container Type		Received By:		
A = None	P = Plastic	V = Vial	G = Glass	<u>J</u>	Date/Time <u>2/28/12 9:04 AM</u>	Date/Time <u>2/28/12 10:00 AM</u>
B = HCl	A = Amber Glass	Mansfield: Certification No.: MA015				
C = HNO <sub>3</sub>	V = Vial					
D = H <sub>2</sub> SO <sub>4</sub>	G = Glass					
E = NaOH	B = Bacteria Cup					
F = MeOH	C = Cube					
G = NaHSO <sub>4</sub>	O = Other					
H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	E = Encore					
KIE = Zn Ac/NaOH	D = BOD Bottle					
O = Other						
Relinquished By:		Preservative				
<u>Alpha</u>	<u>Alpha</u>	<u>Alpha</u>	<u>Alpha</u>	<u>Alpha</u>	<u>Alpha</u>	<u>Alpha</u>
Form No: 01-14 HC (rev. 30-Sept-2013)						

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(See reverse side.)

 <b>NEW JERSEY CHAIN OF CUSTODY</b> Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9220 FAX: 508-822-3288		Service Centers: Allentown, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14215: 275 Cooper Ave, Suite 105		Page <u>15</u> of <u>13</u> Date Rec'd In Lab <u>2/25/22</u>		ALPHA Job # <u>2210602</u>			
<b>Project Information</b> Project Name: Project Location: Project # (Use Project name as Project #) <input type="checkbox"/> Project Manager: ALPHAQuote #:  Phone: Turn-Around Time Standard <input type="checkbox"/> Due Date: # of Days:  Fax: Email:  Rush (only if pre approved) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File)  <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info  PO #					
<b>Client Information</b> Client: Address:  Phone:  Fax:  Email:  These samples have been previously analyzed by Alpha		<b>Regulatory Requirement</b> <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ GW SPLP Leachate Criteria <input type="checkbox"/> Other		<b>Site Information</b> Is this site impacted by Petroleum? Yes <input checked="" type="checkbox"/>  Petroleum Product:					
<b>For EPH, selection is REQUIRED:</b> <input type="checkbox"/> For VOC, selection is REQUIRED:		<b>Other project specific requirements/Comments:</b> <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2  <input type="checkbox"/> 1,4-Dioxane 8011  Please specify Metals or TAL.		<b>ANALYSIS</b>  <u>35</u>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do  (Please Specify below)			
ALPHA Lab ID (Lab Use Only)		Sample ID  <u>124102-117</u> <u>CW-WF-41</u> <u>CW-WF-41</u> <u>CW-WF-42</u> <u>CW-WF-42</u> <u>CW-WF-43</u> <u>CW-WF-43</u> <u>CW-WF-43</u>  <u>125</u>		Collection  <u>2126122</u> <u>11:44</u> <u>11:44</u> <u>11:48</u> <u>11:48</u> <u>11:50</u> <u>11:50</u>  <u>126</u>	Date  <u>2126122</u> <u>11:44</u> <u>11:44</u> <u>11:48</u> <u>11:48</u> <u>11:50</u> <u>11:50</u>  <u>127</u>	Time  <u>11:44</u> <u>11:44</u> <u>11:48</u> <u>11:48</u> <u>11:50</u> <u>11:50</u>  <u>128</u>	Sample Matrix  <u>water</u> <u>water</u> <u>water</u> <u>water</u> <u>water</u> <u>water</u>  <u>129</u>	Sampler's Initials  <u>NS</u> <u>NS</u> <u>NS</u> <u>NS</u> <u>NS</u> <u>NS</u>  <u>130</u>	<b>Sample Specific Comments</b>  <u>35</u>
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> KIE = Zn Ac/NaOH O = Other		Container Type  <u>P</u> <u>C</u>  <u>131</u>		Preservative  <u>P</u>  <u>132</u>		Received By:  <u>M.T.</u> <u>2/28/22</u> <u>11:30AM</u> <u>M.T.</u> <u>2/28/22</u> <u>11:30AM</u>			
Relinquished By:  <u>A</u>  <u>133</u>		Date/Time  <u>2/28/22</u> <u>7:00AM</u>				Date/Time  <u>2/28/22</u> <u>7:00AM</u>			
Farm No: 01-14 HC (rev. 30-Sept-2013)									