

**APPENDIX F – LABORATORY ANALYTICAL REPORTS**



January 28, 2020

Mr. Jeff Lux  
Environmental Properties Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Re: Vertical Profiling 2019  
Work Order: 499803

Dear Mr. Lux:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on December 24, 2019. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This package was revised to correct the sample ID from GE-WA-14/10.5 to GE-WAA-14/10.5 per client requested.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

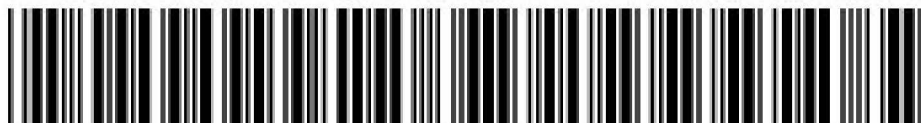
Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 160247

Chain of Custody: 2019-031, 2019-032, 2019-033, 2019-034, 2019-034,2019-035, 2019-035,  
2019-035,2019-036, 2019-036, 2019-036,2019-037, 2019-037, 2019-037,2019-038, 2019-038,  
2019-038,2019-039, 2019-039, 2019-040, 2019-041, 2019-042, 2019-043 and 2019-045

Enclosures





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# Case Narrative

This package was revised to correct the sample ID from GE-WA-14/10.5 to GE-WAA-14/10.5 per client requested.

**CASE NARRATIVE**  
**for**  
**Burns & McDonnell**  
**Vertical Profiling 2019**  
**SDG:499803**

**January 28, 2020**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary**

**Sample receipt** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on December 24, 2019 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Items of Note** There are no additional items of note concerning this SDG.

**Sample Identification** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
499803001	GE-WAA-15/7.6
499803002	GE-WAA-15/9.6
499803003	GE-WAA-15/11.6
499803004	GE-WAA-15/13.6
499803005	GE-WAA-15/15.6
499803006	GE-WAA-15/17.6
499803007	GE-WAA-15/19.6
499803008	GE-WAA-15/21.6
499803009	GE-WAA-15/23.6
499803010	GE-WAA-15/23.6DUP
499803011	GE-WAA-15/25.6
499803012	GE-WAA-14/8.5
499803013	GE-WAA-14/12.5
499803014	GE-WAA-14/14.5
499803015	GE-WAA-14/16.5
499803016	GE-WAA-14/24.5
499803017	GE-WAA-14/26.5
499803018	GE-WAA-05/12.5
499803019	GE-WAA-05/14.5
499803020	GE-WAA-05/16.5
499803021	GE-WAA-05/16.5DUP
499803022	GE-WAA-05/18.5
499803023	GE-WAA-05/20.5
499803024	GE-WAA-05/22.5

499803025	GE-WAA-05/24.5
499803026	GE-WAA-05/26.5
499803027	GE-WAA-05/28.5
499803028	GE-WAA-05/30.5
499803029	GE-WAA-09/8.0
499803030	GE-WAA-09/10.0
499803031	GE-WAA-09/12.0
499803032	GE-WAA-09/12.0DUP
499803033	GE-WAA-09/14.0
499803034	GE-WAA-09/15.0
499803035	GE-WAA-10/7.5
499803036	GE-WAA-10/9.5
499803037	GE-WAA-10/11.5
499803038	GE-WAA-10/13.5
499803039	GE-WAA-10/14.75
499803040	GE-WAA-11/7.6
499803041	GE-WAA-11/10.6
499803042	GE-WAA-11/12.6
499803043	GE-WAA-11/12.6DUP
499803044	GE-WAA-11/14.6
499803045	GE-WAA-12/7.0
499803046	GE-WAA-12/9.0
499803047	GE-WAA-12/11.0
499803048	GE-WAA-12/13.0
499803049	GE-WAA-12/15.0
499803050	GE-WAA-12/16.15
499803051	GE-WAA-13/8.0
499803052	GE-WAA-13/10.0
499803053	GE-WAA-13/12.0
499803054	GE-WAA-13/14.0
499803055	GE-WAA-13/15.9
499803056	GE-BA1-09/6.5
499803057	GE-BA1-09/8.5
499803058	GE-BA1-09/10.5
499803059	GE-BA1-09/12.5
499803060	GE-BA1-09/14.5
499803061	GE-BA1-09/16.5
499803062	GE-BA1-09/18.5
499803063	GE-BA1-09/20.5
499803064	GE-BA1-09/22.5
499803065	GE-BA1-09/24.5
499803066	GE-BA1-08/10.6
499803067	GE-BA1-08/12.6
499803068	GE-BA1-08/14.6
499803069	GE-BA1-08/16.6
499803070	GE-BA1-08/18.6
499803071	GE-BA1-08/20.6
499803072	GE-BA1-08/22.6
499803073	GE-BA1-08/24.6
499803074	GE-BA1-08/27.6
499803075	GE-BA1-08/29.15
499803076	GE-BA1-07/9.7
499803077	GE-BA1-07/11.7

499803078	GE-BA1-07/13.7
499803079	GE-BA1-07/15.7
499803080	GE-BA1-07/17.7
499803081	GE-BA1-07/19.7
499803082	GE-BA1-07/21.7
499803083	GE-BA1-07/21.7DUP
499803084	GE-BA1-07/23.7
499803085	GE-BA1-07/25.7
499803086	GE-BA1-07/27.7
499803087	GE-BA1-06/10.0
499803088	GE-BA1-06/12.0
499803089	GE-BA1-06/14.0
499803090	GE-BA1-06/16.0
499803091	GE-BA1-06/18.0
499803092	GE-BA1-06/20.0
499803093	GE-BA1-06/22.0
499803094	GE-BA1-06/24.0
499803095	GE-BA1-06/26.0
499803096	GE-BA1-06/28.0
499803097	GE-BA1-05/10.0
499803098	GE-BA1-05/12.0
499803099	GE-BA1-05/14.0
499803100	GE-BA1-05/16.0
499803101	GE-BA1-05/18.0
499803102	GE-BA1-05/20.0
499803103	GE-BA1-05/22.0
499803104	GE-BA1-05/28.0
499803105	GE-WAA-13/10.0DUP
499803106	GE-BA1-09/16.5DUP
499803107	GE-BA1-08/22.6DUP
499803108	GE-BA1-06/22.0DUP
499803109	GE-WAA-14/10.5
499803110	GE-BA1-05/20.0DUP

### **Case Narrative**

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

### **Data Package**

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Metals.

This data package, to the best of my knowledge, is in compliance with technical and administrative requirements.



Julie Robinson  
Project Manager

# **Chain of Custody and Supporting Documentation**

499803

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-031													
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393 I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: <i>[Signature]</i>						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED											
												SITE: CIMARRON FACILITY						SAMPLE TYPE					
SAMPLE			CONTAINER			SOLID		WATER			U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)											
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED			±5µ	Y/N									
GE-WAA-15/7.6	12/17/2019	1340	1	P	250 ml			X	HNO3	Y			X										
GE-WAA-15/7.6	12/17/2019	1340	1	P	125 ml			X	H2SO4	N				X									
GE-WAA-15/9.6	12/17/2019	1405	1	P	250 ml			X	HNO3	Y			X										
GE-WAA-15/9.6	12/17/2019	1405	1	P	125 ml			X	H2SO4	N				X									
GE-WAA-15/11.6	12/17/2019	1430	1	P	250 ml			X	HNO3	Y			X										
GE-WAA-15/11.6	12/17/2019	1430	1	P	125 ml			X	H2SO4	N				X									
GE-WAA-15/13.6	12/17/2019	1445	1	P	250 ml			X	HNO3	Y			X										
GE-WAA-15/13.6	12/17/2019	1445	1	P	125 ml			X	H2SO4	N				X									
GE-WAA-15/15.6	12/17/2019	1510	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-15/15.6	12/17/2019	1510	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-15/17.6	12/17/2019	1525	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-15/17.6	12/17/2019	1525	1	P	125 ml			X	H2SO4	N		X											

Potential Hazardous Characteristics <input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown					Sample Disposal <input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions					
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:					HP INITIAL: <i>JM</i>					
PROJECT NAME: VERTICAL PROFILING 2019					PO#: 160247					
RELINQUISHED BY SAMPLER: <i>[Signature]</i> DATE: 12/23/19    TIME: 1700			RECEIVED BY: <i>[Signature]</i> DATE: 12/24/19    TIME: 11:00			EDD REPORT TO: (Report Level?)                    EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a>				
RELINQUISHED BY:			RECEIVED BY:			HARD COPY REPORT and GEL EDD (PDF) TO: (Report Level?) <a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a>				

*[Signature]*  
QA Review



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST COC #: 2019-032

SHIP TO:  
 Company Name: GEL Laboratories LLC  
 Address: 2040 Savage Road  
 Address: Charleston, SC 29407  
 Contact Person: Julie Robinson  
 Phone: 843-769-7393

SHIP FROM:  
 Environmental Properties Management  
 100 N. Hwy 74  
 Guthrie, OK 73044  
 2019 Vertical Profiling

ANALYSIS REQUESTED									

I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES.  
 SAMPLER SIGNATURE: *[Signature]*

Contact Person: Jeff Lux  
 Phone: 405-642-5152

SITE: CIMARRON FACILITY

SAMPLE TYPE

SAMPLE			CONTAINER			SOLID		WATER			U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)							
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED 45µ Y/N									
GE-WAA-15/19.6	12/17/2019	1540	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-15/19.6	12/17/2019	1540	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-15/21.6	12/17/2019	1635	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-15/21.6	12/17/2019	1635	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-15/23.6	12/17/2019	1646	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-15/23.6	12/17/2019	1646	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-15/23.6DUP	12/17/2019	1646	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-15/23.6DUP	12/17/2019	1646	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-15/25.6	12/17/2019	1710	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-15/25.6	12/17/2019	1710	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-14/8.5	12/18/2019	937	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-14/8.5	12/18/2019	937	1	P	125 ml			X	H2SO4	N		X							

Potential Hazardous Characteristics  
 Non-Haz  RCRA D001,2&3, or 4  RCRA Listed  Radioactive  Unknown

Sample Disposal  
 Disposal Lab  Return to Client  Holding pending further instructions

THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:  HP INITIAL: *JM*

PROJECT NAME: VERTICAL PROFILING 2019 PO#: 160247

RELINQUISHED BY SAMPLER: *[Signature]* DATE: 12/23/19 TIME: 1700

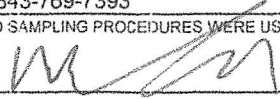
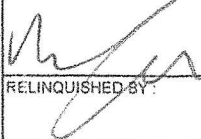

RECEIVED BY: *[Signature]* DATE: 12/24/19 TIME: 11:00

EDD REPORT TO:  
 (Report Level?) EQUIS [dhorne@burnsmcd.com](mailto:dhorne@burnsmcd.com); [jlux@envpm.com](mailto:jlux@envpm.com)

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

HARD COPY REPORT and GEL EDD (.PDF) TO:  
 (Report Level?) [jlux@envpm.com](mailto:jlux@envpm.com); [dhorne@burnsmcd.com](mailto:dhorne@burnsmcd.com)

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-033													
SHIP TO: Company Name: GEL Laboratoriss LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED											
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 												U-235/238 (EPA 200.6)		Nitrate (EPA 363.2)									
SITE: CIMARRON FACILITY						SAMPLE TYPE																	
SOLID			WATER																				
SAMPLE			CONTAINER																				
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED	U-235/238 (EPA 200.6)	Nitrate (EPA 363.2)											
GE-WAA-14/12.5	121/18/19	1010	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-14/12.5	121/18/19	1010	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-14/14.5	121/18/19	1022	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-14/14.5	121/18/19	1022	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-14/16.5	121/18/19	1032	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-14/16.5	121/18/19	1032	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-14/24.5	121/18/19	1345	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-14/24.5	121/18/19	1345	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-14/26.5	121/18/19	1453	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-14/26.5	121/18/19	1453	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-05/12.5	12/19/2019	900	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-05/14.5	12/19/2019	915	1	P	250 ml			X	HNO3	Y	X												
Potential Hazardous Characteristics						Sample Disposal																	
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,283, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions																	
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <u>JM</u>																	
PROJECT NAME: VERTICAL PROFILING 2019										PO#: 160247													
RELINQUISHED BY: 			DATE: 12/23/19			TIME: 1700			RECEIVED BY: 			DATE: 12/24/19			TIME: 11:00			EDD REPORT TO:					
															(Report Level?) EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a>								
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			HARD COPY REPORT and GEL EDD (.PDF) TO:					
															(Report Level?) <a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a>								



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST


COC #: 2019-035

SHIP TO:  
 Company Name: GEL Laboratories LLC  
 Address: 2040 Savage Road  
 Address: Charleston, SC 29407  
 Contact Person: Julie Robinson  
 Phone: 843-769-7393

SHIP FROM:  
 Environmental Properties Management  
 100 N. Hwy 74  
 Guthrie, OK 73044  
 2019 Vertical Profiling  
 Contact Person: Jeff Lux  
 Phone: 405-642-5152

ANALYSIS REQUESTED

I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES.

SAMPLER SIGNATURE: 

SITE: CIMARRON FACILITY

SAMPLE TYPE

SAMPLE			CONTAINER			SOLID		WATER			U-235/238 (EPA 200.8)	Nitrate (EPA 363.2)	ANALYSIS REQUESTED					
ID	DATE	TIME	NO.	TYPE	SIZE	SO-L	OTHER	"X" IF WATER	PRESERV.	FILTERED			45µ Y/N					
GE-WAA-09/10.0	12/19/2019	1426	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-09/12.0	12/19/2019	1437	1	P	250 ml			X	HNO3	Y	X							
GE-WAA-09/12.0	12/19/2019	1437	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-09/12.0DUP	12/19/2019	1437	1	P	250 ml			X	HNO3	Y	X							
GE-WAA-09/12.0DUP	12/19/2019	1437	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-09/14.0	12/19/2019	1453	1	P	250 ml			X	HNO3	Y	X							
GE-WAA-09/14.0	12/19/2019	1453	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-09/15.0	12/19/2019	1507	1	P	250 ml			X	HNO3	Y	X							
GE-WAA-09/15.0	12/19/2019	1507	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-10/7.5	12/20/2019	818	1	P	250 ml			X	HNO3	Y	X							
GE-WAA-10/7.5	12/20/2019	818	1	P	125 ml			X	H2SO4	N		X						
GE-WAA-10/9.5	12/20/2019	833	1	P	250 ml			X	HNO3	Y	X							

Potential Hazardous Characteristics

Sample Disposal

Non-Haz  RCRA D001,283, or 4  RCRA Listed  Radioactive  Unknown


Disposal Lab  Return to Client  Holding pending further instructions

THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:  YES  NO

HP INITIAL: JM

PROJECT NAME: VERTICAL PROFILING 2019

PO#: 160247

RELINQUISHED BY:  DATE: 12/23/19 TIME: 1700


RECEIVED BY:  DATE: 12/24/19 TIME: 11:00

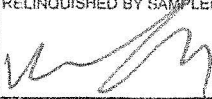

EDD REPORT TO:  
 (Report Level?) EQUIS [dhorne@burnsmcd.com](mailto:dhorne@burnsmcd.com); [jlux@envpm.com](mailto:jlux@envpm.com)

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

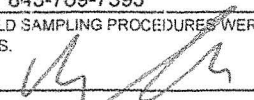


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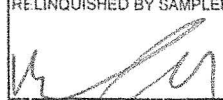

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-036									
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling  Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED							
												I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 							
SITE: CIMARRON FACILITY						SAMPLE TYPE													
SAMPLE			CONTAINER			SOLID		WATER			U-235/238 (EPA 200.8) Nitrate (EPA 353.2)								
ID	DATE	TIME	NO.	TYPE	SIZE	SO.L	OTHER	"X" IF WATER	PRESERV.	FILTERED									
GE-WAA-10/9.5	12/20/2019	833	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-10/11.5	12/20/2019	850	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-10/11.5	12/20/2019	850	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-10/13.5	12/20/2019	905	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-10/13.5	12/20/2019	905	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-10/14.75	12/20/2019	927	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-10/14.75	12/20/2019	927	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-11/7.6	12/20/2019	1115	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-11/7.6	12/20/2019	1115	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-11/10.6	12/20/2019	1141	1	P	250 ml			X	HNO3	Y	X								
GE-WAA-11/10.6	12/20/2019	1141	1	P	125 ml			X	H2SO4	N		X							
GE-WAA-11/12.6	12/20/2019	1153	1	P	250 ml			X	HNO3	Y	X								

Potential Hazardous Characteristics <input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown					Sample Disposal <input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions				
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:					HP INITIAL: <b>JM</b>				
PROJECT NAME: VERTICAL PROFILING 2019					PO#: 160247				
RELINQUISHED BY SAMPLER:  DATE: 12/23/19 TIME: 1700			RECEIVED BY:  DATE: 12/24/19 TIME: 11:00			EDD REPORT TO:			
						(Report Level?) EQUIS dhorne@burnsmcd.com; jlux@envpm.com			
RELINQUISHED BY:			RECEIVED BY:			HARD COPY REPORT and GEL EDD (.PDF) TO:			
						(Report Level?) jlux@envpm.com; dhorne@burnsmcd.com			



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-037															
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED													
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 												U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)												
SITE: CIMARRON FACILITY						SAMPLE TYPE																			
SAMPLE			CONTAINER			SOLID		WATER																	
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED															
GE-WAA-11/12.6	12/20/2019	1153	1	P	125 ml			X	H2SO4	N															
GE-WAA-11/12.6DUP	12/20/2019	1153	1	P	250 ml			X	HNO3	Y	X														
GE-WAA-11/12.6DUP	12/20/2019	1153	1	P	125 ml			X	H2SO4	N															
GE-WAA-11/14.6	12/20/2019	1207	1	P	250 ml			X	HNO3	Y	X														
GE-WAA-11/14.6	12/20/2019	1207	1	P	125 ml			X	H2SO4	N															
GE-WAA-12/7.0	12/20/2019	1414	1	P	250 ml			X	HNO3	Y	X														
GE-WAA-12/7.0	12/20/2019	1414	1	P	125 ml			X	H2SO4	N															
GE-WAA-12/9.0	12/20/2019	1427	1	P	250 ml			X	HNO3	Y	X														
GE-WAA-12/9.0	12/20/2019	1427	1	P	125 ml			X	H2SO4	N															
GE-WAA-12/11.0	12/20/2019	1441	1	P	250 ml			X	HNO3	Y	X														
GE-WAA-12/11.0	12/20/2019	1441	1	P	125 ml			X	H2SO4	N															
GE-WAA-12/13.0	12/20/2019	1455	1	P	250 ml			X	HNO3	Y	X														
Potential Hazardous Characteristics						Sample Disposal																			
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions																			
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: JM																			
PROJECT NAME: VERTICAL PROFILING 2019										PO#: 160247															
RELINQUISHED BY SAMPLER: 			DATE: 12/23/19			TIME: 1700			RECEIVED BY: 			DATE: 12/24/19			TIME: 11:00			EDD REPORT TO:							
															(Report Level?) EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a>										
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			HARD COPY REPORT and GEL EDD (.PDF) TO:							
																		(Report Level?) <a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a>							


  
QA Review

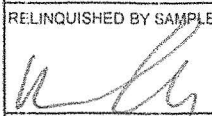
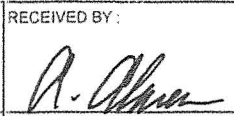
CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-038													
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED											
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 												U-235/238 (EPA 200.8) Nitrate (EPA 353.2)											
SITE: CIMARRON FACILITY						SAMPLE TYPE																	
SAMPLE			CONTAINER			SOLID		WATER															
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED													
GE-WAA-12/13.0	12/20/2019	1455	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-12/15.0	12/20/2019	1509	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-12/15.0	12/20/2019	1509	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-12/16.15	12/20/2019	1526	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-12/16.15	12/20/2019	1526	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-13/8.0	12/21/2019	831	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-13/8.0	12/21/2019	831	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-13/10.0	12/21/2019	846	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-13/10.0	12/21/2019	846	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-13/12.0	12/21/2019	901	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-13/12.0	12/21/2019	901	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-13/14.0	12/21/2019	914	1	P	250 ml			X	HNO3	Y	X												
Potential Hazardous Characteristics						Sample Disposal																	
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions																	
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: JM																	
PROJECT NAME: VERTICAL PROFILING 2019										PO#: 160247													
RELINQUISHED BY SAMPLER:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			EDD REPORT TO:					
			12/23/19			1700						12/24/19			11:00			(Report Level?) EQUIS dhorne@burnsmcd.com; jlux@envpm.com (Report Level?) jlux@envpm.com; dhorne@burnsmcd.com					
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			HARD COPY REPORT and GEL EDD (.PDF) TO:					
															(Report Level?) jlux@envpm.com; dhorne@burnsmcd.com								








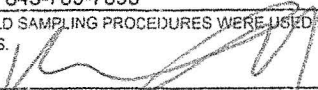




CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-041									
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling  Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED							
												I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 							
SITE: CIMARRON FACILITY						SAMPLE TYPE													
SOLID			WATER																
						"X" IF		PRESERV.		FILTERED									
						WATER		HNO3		45µ Y/N									
GE-BA1-07/11.7	12/22/2019	843	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/13.7	12/22/2019	858	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/15.7	12/22/2019	908	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/17.7	12/22/2019	919	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/19.7	12/22/2019	930	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/21.7	12/22/2019	940	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/21.7DUP	12/22/2019	940	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/23.7	12/22/2019	950	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/25.7	12/22/2019	1010	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-07/27.7	12/22/2019	1023	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/10.0	12/22/2019	1223	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/12.0	12/22/2019	1235	1	P	250 ml			X	HNO3	Y	X								

Potential Hazardous Characteristics						Sample Disposal														
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions														
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <b>JM</b>														
PROJECT NAME: VERTICAL PROFILING 2019						PO#: 160247														
RELINQUISHED BY SAMPLER:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			EDD REPORT TO:		
			12/23/19			1700						12/24/19			11:00			(Report Level?) EQUIS    dhorne@burnsmcd.com; jlux@envpm.com		
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			HARD COPY REPORT and GEL EDD (PDF) TO:		
																		(Report Level?) jlux@envpm.com; dhorne@burnsmcd.com		

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-042									
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152				ANALYSIS REQUESTED									
										I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 						U-235/238 (EPA 200.8)			
SITE: CIMARRON FACILITY						SAMPLE TYPE													
SOLID			WATER																
			"X" IF			PRESERV.		FILTERED											
			WATER			<5µ		Y/N											
ID	DATE	TIME	NO.	TYPE	SIZE	SO L	OTHER	"X" IF WATER	PRESERV.	FILTERED									
GE-BA1-06/14.0	12/22/2019	1248	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/16.0	12/22/2019	1258	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/18.0	12/22/2019	1308	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/20.0	12/22/2019	1322	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/22.0	12/22/2019	1334	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/24.0	12/22/2019	1344	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/26.0	12/22/2019	1354	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-06/28.0	12/22/2019	1406	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-05/10.0	12/22/2019	1459	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-05/12.0	12/22/2019	1509	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-05/14.0	12/22/2019	1520	1	P	250 ml			X	HNO3	Y	X								
GE-BA1-05/16.0	12/22/2019	1530	1	P	250 ml			X	HNO3	Y	X								

Potential Hazardous Characteristics					Sample Disposal				
<input checked="" type="checkbox"/> Non-Haz	<input type="checkbox"/> RCRA D001,2&3, or 4	<input type="checkbox"/> RCRA Listed	<input type="checkbox"/> Radioactive	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Disposal Lab	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Holding pending further instructions		
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:					HP INITIAL:	JM			
PROJECT NAME: VERTICAL PROFILING 2019					PO#: 160247				
RELINQUISHED BY SAMPLER:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	EDD REPORT TO:			
	12/23/19	1700		12/24/19	11:00	(Report Level?) EQUIS dhorne@burnsmcd.com; jlux@envpm.com			
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	HARD COPY REPORT and GEL EDD (.PDF) TO:			
						(Report Level?) jlux@envpm.com; dhorne@burnsmcd.com			

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-043									
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393 I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152				ANALYSIS REQUESTED									
										U-235/238 (EPA 200.8)									
SITE: CIMARRON FACILITY						SAMPLE TYPE													
						SOLID		WATER											
								"X" IF WATER		PRESERV. HNO3		FILTERED 45µ Y/N							
ID	DATE	TIME	NO.	TYPE	SIZE	SOL.	OTHER												
GE-BA1-05/18.0	12/22/2019	1539	1	P	250 ml			X		HNO3	Y	X							
GE-BA1-05/20.0	12/22/2019	1548	1	P	250 ml			X		HNO3	Y	X							
GE-BA1-05/22.0	12/22/2019	1559	1	P	250 ml			X		HNO3	Y	X							
GE-BA1-05/28.0	12/22/2019	1633	1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							
			1	P	250 ml			X		HNO3	Y	X							

Potential Hazardous Characteristics <input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown					Sample Disposal <input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions												
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:							HP INITIAL: <u>JM</u>										
PROJECT NAME: VERTICAL PROFILING 2019							PO#: 160247										
RELINQUISHED BY SAMPLER: 			DATE: 12/23/19			TIME: 1700			RECEIVED BY: 			DATE: 12/24/19			TIME: 11:00		
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:		
EDD REPORT TO:									(Report Level?)			EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a>					
HARD COPY REPORT and GEL EDD (.PDF) TO:									(Report Level?)			<a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a>					

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST											COC #: 2019-045													
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM:  Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling  Contact Person: Jeff Lux Phone: 405-642-5152					ANALYSIS REQUESTED													
											I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE:							U-235/238 (EPA 200.8) Nitrate (EPA 353.2)						
SITE: CIMARRON FACILITY						SAMPLE TYPE																		
						SOLID		WATER																
								"X" IF	PRESERV.	FILTERED														
								WATER		.45µ Y/N														
GE-WAA-13/10.0DUP	12/21/2019	846	1	P	250 ml			X	HNO3	Y	X													
GE-WAA-13/10.0DUP	12/21/2019	846	1	P	125 ml			X	H2SO4	N		X												
GE-BA1-09/16.5DUP	12/21/2019	1148	1	P	250 ml			X	HNO3	Y	X													
GE-BA1-08/22.6DUP	12/21/2019	1534	1	P	250 ml			X	HNO3	Y	X													
GE-BA1-06/22.0DUP	12/22/2019	1334	1	P	250 ml			X	HNO3	Y	X													
GE-WA-14/10.5	12/18/2019	953	1	P	250 ml			X	HNO3	Y	X													
GE-WA-14/10.5	12/18/2019	953	1	P	125 ml			X	H2SO4	N		X												
Potential Hazardous Characteristics						Sample Disposal																		
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions																		
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: JM																		
PROJECT NAME: VERTICAL PROFILING 2019											PO#: 160232													
RELINQUISHED BY SAMPLER:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			EDD REPORT TO:						
			12/23/19			1700						12/24/19			11:00			(Report) EQUIS dhorne@burnsmcd.com; ilux@envpm.com						
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:			HARD COPY REPORT and GEL EDD (.PDF) TO:						
																		(Report) ilux@envpm.com; dhorne@burnsmcd.com						

QA Review





Client: <u>CMBN</u>		SDG/AR/COC/Work Order:		
Received By: <u>AJA</u>		Date Received: <u>12/24/19</u>		
Carrier and Tracking Number		Circle Applicable: <input checked="" type="checkbox"/> FedEx Express <input type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input type="checkbox"/> Courier <input type="checkbox"/> Other <u>7773 3131 5866 (gchem) - 2°</u> <u>7773 3131 6152 (metals) - 21°</u> <u>7773 3131 6163 (metals) - 21°</u>		
Suspected Hazard Information	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___		
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COC notation or radioactive stickers on containers equal client designation.		
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1    Rad 2    Rad 3		
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COC notation or hazard labels on containers equal client designation.		
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If D or E is yes, select Hazards below: PCB's    Flammable    Foreign Soil    RCRA    Asbestos    Beryllium    Other: _____		
Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC    COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs    Dry ice <u>None</u> Other: *all temperatures are recorded in Celsius    TEMP: <u>see above</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>LR4-16</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken    Damaged container    Leaking container    Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers    No times on containers    COC missing info    Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC    Other (describe) <u>Received GE-BAL-05/20 @ DUP (I Vanned) not on CoC</u>
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished    Other (describe)
Comments (Use Continuation Form if needed):				

**Subject:** RE: Samples received at GEL 12/24

**From:** "Lux, Jeff J" <jlux@burnsmcd.com>

**Date:** 12/26/2019, 12:02 PM

**To:** Sam Hogan <Sam.Hogan@gel.com>, "dkaylor@enercon.com" <dkaylor@enercon.com>, team.robinson <team.robinson@gel.com>

Please analyze this sample for U-235 & U-238 by EPA method 200.8. Thank you.

*Jeff Lux, Project Manager  
405-642-5152*

---

**From:** Sam Hogan <Sam.Hogan@gel.com>

**Sent:** Thursday, December 26, 2019 11:00 AM

**To:** Lux, Jeff J <jlux@burnsmcd.com>; dkaylor@enercon.com; team.robinson <team.robinson@gel.com>

**Subject:** Samples received at GEL 12/24

Good morning,

We received a container labeled GE-BA1-05/20.0DUP for uranium testing that was not listed on the chain of custody. Please advise with what you would like us to do with this container.

Thank you

--

**Sam Hogan**

**Project Manager Assistant**



2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417

Office Direct: 843.556.8171 ext. 4523 | Office Main: 843.556.8171 | Fax: 843.766.1178

E-Mail: [sam.hogan@gel.com](mailto:sam.hogan@gel.com) | | Website: [www.gel.com](http://www.gel.com)

**Analytical Testing**



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<http://www.gellaboratories.com>

# **Laboratory Certification**



**List of current GEL Certifications as of 28 January 2020**

<b>State</b>	<b>Certification</b>
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-19-15
Utah NELAP	SC000122019-30
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# Metals Analysis

# Case Narrative

**Metals**  
**Technical Case Narrative**  
**Burns & McDonnell**  
**SDG #: 499803**

**Product:** Determination of Metals by ICP-MS

**Analytical Method:** EPA 200.8

**Analytical Procedure:** GL-MA-E-014 REV# 33

**Analytical Batches:** 1953941, 1953943, 1953945, 1953947, 1953949 and 1953951

**Preparation Method:** EPA 200.2

**Preparation Procedure:** GL-MA-E-016 REV# 18

**Preparation Batches:** 1953940, 1953942, 1953944, 1953946, 1953948 and 1953950

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
499803001	GE-WAA-15/7.6
499803002	GE-WAA-15/9.6
499803003	GE-WAA-15/11.6
499803004	GE-WAA-15/13.6
499803005	GE-WAA-15/15.6
499803006	GE-WAA-15/17.6
499803007	GE-WAA-15/19.6
499803008	GE-WAA-15/21.6
499803009	GE-WAA-15/23.6
499803010	GE-WAA-15/23.6DUP
499803011	GE-WAA-15/25.6
499803012	GE-WAA-14/8.5
499803013	GE-WAA-14/12.5
499803014	GE-WAA-14/14.5
499803015	GE-WAA-14/16.5
499803016	GE-WAA-14/24.5
499803017	GE-WAA-14/26.5
499803018	GE-WAA-05/12.5
499803019	GE-WAA-05/14.5
499803020	GE-WAA-05/16.5
499803021	GE-WAA-05/16.5DUP
499803022	GE-WAA-05/18.5
499803023	GE-WAA-05/20.5
499803024	GE-WAA-05/22.5
499803025	GE-WAA-05/24.5
499803026	GE-WAA-05/26.5
499803027	GE-WAA-05/28.5
499803028	GE-WAA-05/30.5
499803029	GE-WAA-09/8.0
499803030	GE-WAA-09/10.0
499803031	GE-WAA-09/12.0
499803032	GE-WAA-09/12.0DUP
499803033	GE-WAA-09/14.0

499803034	GE-WAA-09/15.0
499803035	GE-WAA-10/7.5
499803036	GE-WAA-10/9.5
499803037	GE-WAA-10/11.5
499803038	GE-WAA-10/13.5
499803039	GE-WAA-10/14.75
499803040	GE-WAA-11/7.6
499803041	GE-WAA-11/10.6
499803042	GE-WAA-11/12.6
499803043	GE-WAA-11/12.6DUP
499803044	GE-WAA-11/14.6
499803045	GE-WAA-12/7.0
499803046	GE-WAA-12/9.0
499803047	GE-WAA-12/11.0
499803048	GE-WAA-12/13.0
499803049	GE-WAA-12/15.0
499803050	GE-WAA-12/16.15
499803051	GE-WAA-13/8.0
499803052	GE-WAA-13/10.0
499803053	GE-WAA-13/12.0
499803054	GE-WAA-13/14.0
499803055	GE-WAA-13/15.9
499803056	GE-BA1-09/6.5
499803057	GE-BA1-09/8.5
499803058	GE-BA1-09/10.5
499803059	GE-BA1-09/12.5
499803060	GE-BA1-09/14.5
499803061	GE-BA1-09/16.5
499803062	GE-BA1-09/18.5
499803063	GE-BA1-09/20.5
499803064	GE-BA1-09/22.5
499803065	GE-BA1-09/24.5
499803066	GE-BA1-08/10.6
499803067	GE-BA1-08/12.6
499803068	GE-BA1-08/14.6
499803069	GE-BA1-08/16.6
499803070	GE-BA1-08/18.6
499803071	GE-BA1-08/20.6
499803072	GE-BA1-08/22.6
499803073	GE-BA1-08/24.6
499803074	GE-BA1-08/27.6
499803075	GE-BA1-08/29.15
499803076	GE-BA1-07/9.7
499803077	GE-BA1-07/11.7
499803078	GE-BA1-07/13.7
499803079	GE-BA1-07/15.7
499803080	GE-BA1-07/17.7
499803081	GE-BA1-07/19.7
499803082	GE-BA1-07/21.7
499803083	GE-BA1-07/21.7DUP
499803084	GE-BA1-07/23.7
499803085	GE-BA1-07/25.7

499803086	GE-BA1-07/27.7
499803087	GE-BA1-06/10.0
499803088	GE-BA1-06/12.0
499803089	GE-BA1-06/14.0
499803090	GE-BA1-06/16.0
499803091	GE-BA1-06/18.0
499803092	GE-BA1-06/20.0
499803093	GE-BA1-06/22.0
499803094	GE-BA1-06/24.0
499803095	GE-BA1-06/26.0
499803096	GE-BA1-06/28.0
499803097	GE-BA1-05/10.0
499803098	GE-BA1-05/12.0
499803099	GE-BA1-05/14.0
499803100	GE-BA1-05/16.0
499803101	GE-BA1-05/18.0
499803102	GE-BA1-05/20.0
499803103	GE-BA1-05/22.0
499803104	GE-BA1-05/28.0
499803105	GE-WAA-13/10.0DUP
499803106	GE-BA1-09/16.5DUP
499803107	GE-BA1-08/22.6DUP
499803108	GE-BA1-06/22.0DUP
499803109	GE-WAA-14/10.5
499803110	GE-BA1-05/20.0DUP
1204463573	Method Blank (MB)ICP-MS
1204463581	Method Blank (MB)ICP-MS
1204463589	Method Blank (MB)ICP-MS
1204463597	Method Blank (MB)ICP-MS
1204463605	Method Blank (MB)ICP-MS
1204463613	Method Blank (MB)ICP-MS
1204463574	Laboratory Control Sample (LCS)
1204463582	Laboratory Control Sample (LCS)
1204463590	Laboratory Control Sample (LCS)
1204463598	Laboratory Control Sample (LCS)
1204463606	Laboratory Control Sample (LCS)
1204463614	Laboratory Control Sample (LCS)
1204463579	499803001(GE-WAA-15/7.6L) Serial Dilution (SD)
1204463580	499803002(GE-WAA-15/9.6L) Serial Dilution (SD)
1204463587	499803020(GE-WAA-05/16.5L) Serial Dilution (SD)
1204463588	499803021(GE-WAA-05/16.5DUPL) Serial Dilution (SD)
1204463595	499803039(GE-WAA-10/14.75L) Serial Dilution (SD)
1204463596	499803040(GE-WAA-11/7.6L) Serial Dilution (SD)
1204463603	499803058(GE-BA1-09/10.5L) Serial Dilution (SD)
1204463604	499803059(GE-BA1-09/12.5L) Serial Dilution (SD)
1204463611	499803077(GE-BA1-07/11.7L) Serial Dilution (SD)
1204463612	499803078(GE-BA1-07/13.7L) Serial Dilution (SD)
1204463619	499803096(GE-BA1-06/28.0L) Serial Dilution (SD)
1204463620	499803097(GE-BA1-05/10.0L) Serial Dilution (SD)
1204463575	499803001(GE-WAA-15/7.6D) Sample Duplicate (DUP)
1204463576	499803002(GE-WAA-15/9.6D) Sample Duplicate (DUP)
1204463583	499803020(GE-WAA-05/16.5D) Sample Duplicate (DUP)

1204463584	499803021(GE-WAA-05/16.5DUPD) Sample Duplicate (DUP)
1204463591	499803039(GE-WAA-10/14.75D) Sample Duplicate (DUP)
1204463592	499803040(GE-WAA-11/7.6D) Sample Duplicate (DUP)
1204463599	499803058(GE-BA1-09/10.5D) Sample Duplicate (DUP)
1204463600	499803059(GE-BA1-09/12.5D) Sample Duplicate (DUP)
1204463607	499803077(GE-BA1-07/11.7D) Sample Duplicate (DUP)
1204463608	499803078(GE-BA1-07/13.7D) Sample Duplicate (DUP)
1204463615	499803096(GE-BA1-06/28.0D) Sample Duplicate (DUP)
1204463616	499803097(GE-BA1-05/10.0D) Sample Duplicate (DUP)
1204463577	499803001(GE-WAA-15/7.6S) Matrix Spike (MS)
1204463578	499803002(GE-WAA-15/9.6S) Matrix Spike (MS)
1204463585	499803020(GE-WAA-05/16.5S) Matrix Spike (MS)
1204463586	499803021(GE-WAA-05/16.5DUPS) Matrix Spike (MS)
1204463593	499803039(GE-WAA-10/14.75S) Matrix Spike (MS)
1204463594	499803040(GE-WAA-11/7.6S) Matrix Spike (MS)
1204463601	499803058(GE-BA1-09/10.5S) Matrix Spike (MS)
1204463602	499803059(GE-BA1-09/12.5S) Matrix Spike (MS)
1204463609	499803077(GE-BA1-07/11.7S) Matrix Spike (MS)
1204463610	499803078(GE-BA1-07/13.7S) Matrix Spike (MS)
1204463617	499803096(GE-BA1-06/28.0S) Matrix Spike (MS)
1204463618	499803097(GE-BA1-05/10.0S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Calibration Information**

**ICSA/ICSAB Statement**

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

**Technical Information**

**Sample Dilutions**

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 499803007 (GE-WAA-15/19.6), 499803008 (GE-WAA-15/21.6), 499803009 (GE-WAA-15/23.6), 499803010 (GE-WAA-15/23.6DUP), 499803011 (GE-WAA-15/25.6), 499803026 (GE-WAA-05/26.5), 499803027 (GE-WAA-05/28.5), 499803028 (GE-WAA-05/30.5), 499803065 (GE-BA1-09/24.5), 499803072 (GE-BA1-08/22.6), 499803073 (GE-BA1-08/24.6), 499803074 (GE-BA1-08/27.6), 499803075 (GE-BA1-08/29.15), 499803080 (GE-BA1-07/17.7), 499803085 (GE-BA1-07/25.7), 499803086 (GE-BA1-07/27.7), 499803090 (GE-BA1-06/16.0), 499803091 (GE-BA1-06/18.0), 499803092 (GE-BA1-06/20.0), 499803093 (GE-BA1-06/22.0), 499803094 (GE-BA1-06/24.0), 499803095 (GE-BA1-06/26.0), 499803096 (GE-BA1-06/28.0), 499803100 (GE-BA1-05/16.0), 499803101 (GE-BA1-05/18.0), 499803102 (GE-BA1-05/20.0), 499803103 (GE-BA1-05/22.0), 499803104 (GE-BA1-05/28.0), 499803107 (GE-BA1-08/22.6DUP), 499803108 (GE-BA1-06/22.0DUP) and 499803110 (GE-BA1-05/20.0DUP)-ICP-MS were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	499803									
	007	008	009	010	011	026	027	028	065	072
Uranium-235	5X	5X	10X	10X	10X	5X	5X	5X	2X	2X
Uranium-238	5X	5X	10X	10X	10X	1X	1X	1X	1X	1X

Analyte	499803									
	073	074	075	080	085	086	090	091	092	093
Uranium-235	2X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Uranium-238	1X	5X	5X	1X	1X	1X	1X	5X	1X	5X

Analyte	499803									
	094	095	096	100	101	102	103	104	107	108
Uranium-235	5X	5X	5X	2X	5X	5X	5X	5X	2X	5X
Uranium-238	5X	5X	5X	1X	5X	5X	5X	5X	1X	5X

Analyte	499803
	110
Uranium-235	5X
Uranium-238	5X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 499803 GEL Work Order: 499803


### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

### Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Kristen Mizzell

Date: 23 JAN 2020

Title: Team Leader

# **Sample Data Summary**

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102  
 Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Report Date: January 28, 2020

Client Sample ID: GE-WAA-15/7.6  
 Sample ID: 499803001  
 Matrix: Water  
 Collect Date: 17-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.0808	+/-0.00524	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1434	1953941	1
Uranium-238		10.0	+/-0.501	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
---------------------------	------	----------	-----------	-------------------

**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/9.6

Project: CMRN00919

Sample ID: 499803002

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.0784	+/-0.00515	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1440	1953941	1
Uranium-238		9.39	+/-0.470	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
---------------------------	------	----------	-----------	-------------------

**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/11.6

Project: CMRN00919

Sample ID: 499803003

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.106	+/-0.00625	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1450	1953941	1
Uranium-238		13.9	+/-0.697	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/13.6

Project: CMRN00919

Sample ID: 499803004

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.124	+/-0.00702	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1452	1953941	1
Uranium-238		16.1	+/-0.805	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/15.6

Project: CMRN00919

Sample ID: 499803005

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.203	+/-0.0107	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1454	1953941	1
Uranium-238		27.4	+/-1.37	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/17.6  
 Sample ID: 499803006  
 Matrix: Water  
 Collect Date: 17-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.422	+/-0.0213	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1455	1953941	1
Uranium-238		58.4	+/-2.92	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	



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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/19.6

Project: CMRN00919

Sample ID: 499803007

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.29	+/-0.0665	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1535	1953941	1
Uranium-238		176	+/-8.79	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/21.6

Project: CMRN00919

Sample ID: 499803008

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.58	+/-0.0809	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1538	1953941	1
Uranium-238		218	+/-10.9	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/23.6

Project: CMRN00919

Sample ID: 499803009

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		2.73	+/-0.140	0.100		0.700	ug/L	1.00	10	BAJ	01/22/20	1540	1953941	1
Uranium-238		378	+/-18.9	0.670		2.00	ug/L	1.00	10					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/23.6DUP  
Sample ID: 499803010  
Matrix: Water  
Collect Date: 17-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.81	+/-0.144	0.100		0.700	ug/L	1.00	10	BAJ	01/22/20	1541	1953941	1
Uranium-238		390	+/-19.5	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/25.6

Project: CMRN00919

Sample ID: 499803011

Client ID: CMRN001

Matrix: Water

Collect Date: 17-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.38	+/-0.172	0.100		0.700	ug/L	1.00	10	BAJ	01/22/20	1543	1953941	1
Uranium-238		469	+/-23.5	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/8.5  
 Sample ID: 499803012  
 Matrix: Water  
 Collect Date: 18-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0696	+/-0.00482	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1508	1953941	1
Uranium-238		7.26	+/-0.364	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
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 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/12.5

Project: CMRN00919

Sample ID: 499803013

Client ID: CMRN001

Matrix: Water

Collect Date: 18-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.0738	+/-0.00497	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1510	1953941	1
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Uranium-238		6.81	+/-0.341	0.0670		0.200	ug/L	1.00	1					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

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DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/14.5

Project: CMRN00919

Sample ID: 499803014

Client ID: CMRN001

Matrix: Water

Collect Date: 18-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.0954	+/-0.00582	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1512	1953941	1
Uranium-238		10.3	+/-0.513	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/16.5

Project: CMRN00919

Sample ID: 499803015

Client ID: CMRN001

Matrix: Water

Collect Date: 18-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	-------------	----	-----	----	-------	----	----	---------	------	------	-------	------

**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.360	+/-0.0183	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1513	1953941	1
Uranium-238		49.5	+/-2.47	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/24.5

Project: CMRN00919

Sample ID: 499803016

Client ID: CMRN001

Matrix: Water

Collect Date: 18-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.495	+/-0.0250	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1515	1953941	1
Uranium-238		69.2	+/-3.46	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/26.5  
 Sample ID: 499803017  
 Matrix: Water  
 Collect Date: 18-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.592	+/-0.0298	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1517	1953941	1
Uranium-238		81.9	+/-4.09	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/12.5

Project: CMRN00919

Sample ID: 499803018

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.0769	+/-0.00509	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1518	1953941	1
Uranium-238		9.78	+/-0.489	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/14.5

Project: CMRN00919

Sample ID: 499803019

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0617	+/-0.00454	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1520	1953941	1
Uranium-238		7.83	+/-0.392	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953940

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/16.5

Project: CMRN00919

Sample ID: 499803020

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0600	+/-0.00448	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1117	1953943	1
Uranium-238		7.56	+/-0.379	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/16.5DUP  
Sample ID: 499803021  
Matrix: Water  
Collect Date: 19-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0599	+/-0.00448	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1123	1953943	1
Uranium-238		7.44	+/-0.373	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
Lc/LC: Critical Level  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Mtd.: Method  
PF: Prep Factor  
RL: Reporting Limit  
TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/18.5  
Sample ID: 499803022  
Matrix: Water  
Collect Date: 19-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.109	+/-0.00640	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1133	1953943	1
Uranium-238		12.7	+/-0.637	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/20.5

Project: CMRN00919

Sample ID: 499803023

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.255	+/-0.0132	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1135	1953943	1
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Uranium-238		23.3	+/-1.16	0.0670		0.200	ug/L	1.00	1					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/22.5

Project: CMRN00919

Sample ID: 499803024

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.353	+/-0.0179	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1137	1953943	1
Uranium-238		28.4	+/-1.42	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/24.5

Project: CMRN00919

Sample ID: 499803025

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.582	+/-0.0293	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1138	1953943	1
Uranium-238		40.2	+/-2.01	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/26.5

Project: CMRN00919

Sample ID: 499803026

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		50.4	+/-2.52	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1140	1953943	1
Uranium-235		0.830	+/-0.0447	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1208	1953943	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/28.5

Project: CMRN00919

Sample ID: 499803027

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-238		53.3	+/-2.66	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1142	1953943	1
Uranium-235		0.981	+/-0.0518	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1210	1953943	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-05/30.5

Project: CMRN00919

Sample ID: 499803028

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		54.0	+/-2.70	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1143	1953943	1
Uranium-235		0.963	+/-0.0510	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1212	1953943	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/8.0

Project: CMRN00919

Sample ID: 499803029

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.0740	+/-0.00498	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1145	1953943	1
Uranium-238		4.66	+/-0.234	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/10.0

Project: CMRN00919

Sample ID: 499803030

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0193	+/-0.00347	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1150	1953943	1
Uranium-238		1.62	+/-0.0842	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/12.0

Project: CMRN00919

Sample ID: 499803031

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0137	+/-0.00340	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1152	1953943	1
Uranium-238		1.38	+/-0.0727	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/12.0DUP  
Sample ID: 499803032  
Matrix: Water  
Collect Date: 19-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0129	+/-0.00340	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1153	1953943	1
Uranium-238		1.40	+/-0.0737	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/14.0

Project: CMRN00919

Sample ID: 499803033

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0103	+/-0.00337	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1155	1953943	1
Uranium-238		1.25	+/-0.0664	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/15.0

Project: CMRN00919

Sample ID: 499803034

Client ID: CMRN001

Matrix: Water

Collect Date: 19-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	U	ND	+/-0.00336	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1157	1953943	1
Uranium-238		1.13	+/-0.0607	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/7.5  
 Sample ID: 499803035  
 Matrix: Water  
 Collect Date: 20-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0348	+/-0.00376	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1158	1953943	1
Uranium-238		3.56	+/-0.179	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/9.5  
Sample ID: 499803036  
Matrix: Water  
Collect Date: 20-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0585	+/-0.00443	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1200	1953943	1
Uranium-238		6.21	+/-0.312	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
Lc/LC: Critical Level  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Mtd.: Method  
PF: Prep Factor  
RL: Reporting Limit  
TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/11.5

Project: CMRN00919

Sample ID: 499803037

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0410	+/-0.00391	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1202	1953943	1
Uranium-238		4.26	+/-0.214	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/13.5

Project: CMRN00919

Sample ID: 499803038

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0321	+/-0.00370	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1203	1953943	1
Uranium-238		3.52	+/-0.178	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953942

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
---------------------------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/14.75

Project: CMRN00919

Sample ID: 499803039

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0207	+/-0.00349	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1022	1953945	1
Uranium-238		2.07	+/-0.106	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/7.6

Project: CMRN00919

Sample ID: 499803040

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0695	+/-0.00482	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1028	1953945	1
Uranium-238		9.37	+/-0.469	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/10.6  
Sample ID: 499803041  
Matrix: Water  
Collect Date: 20-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0289	+/-0.00363	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1038	1953945	1
Uranium-238		3.76	+/-0.189	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/12.6

Project: CMRN00919

Sample ID: 499803042

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0233	+/-0.00353	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1040	1953945	1
Uranium-238		3.03	+/-0.153	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/12.6DUP  
Sample ID: 499803043  
Matrix: Water  
Collect Date: 20-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0230	+/-0.00353	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1042	1953945	1
Uranium-238		2.93	+/-0.148	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/14.6

Project: CMRN00919

Sample ID: 499803044

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0142	+/-0.00341	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1043	1953945	1
Uranium-238		1.83	+/-0.0943	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/7.0

Project: CMRN00919

Sample ID: 499803045

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0319	+/-0.00370	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1045	1953945	1
Uranium-238		4.07	+/-0.205	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/9.0  
Sample ID: 499803046  
Matrix: Water  
Collect Date: 20-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0299	+/-0.00365	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1047	1953945	1
Uranium-238		3.97	+/-0.200	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/11.0

Project: CMRN00919

Sample ID: 499803047

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0371	+/-0.00381	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1048	1953945	1
Uranium-238		4.46	+/-0.224	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/13.0

Project: CMRN00919

Sample ID: 499803048

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0312	+/-0.00368	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1050	1953945	1
Uranium-238		3.94	+/-0.198	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/15.0

Project: CMRN00919

Sample ID: 499803049

Client ID: CMRN001

Matrix: Water

Collect Date: 20-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0348	+/-0.00376	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1055	1953945	1
Uranium-238		4.05	+/-0.204	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/16.15  
Sample ID: 499803050  
Matrix: Water  
Collect Date: 20-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0471	+/-0.00408	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1057	1953945	1
Uranium-238		5.31	+/-0.266	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/8.0  
 Sample ID: 499803051  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0635	+/-0.00460	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1058	1953945	1
Uranium-238		8.50	+/-0.426	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/10.0

Project: CMRN00919

Sample ID: 499803052

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0206	+/-0.00349	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1100	1953945	1
Uranium-238		2.69	+/-0.136	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/12.0  
 Sample ID: 499803053  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0327	+/-0.00371	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1102	1953945	1
Uranium-238		4.39	+/-0.221	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/14.0

Project: CMRN00919

Sample ID: 499803054

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0249	+/-0.00356	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1103	1953945	1
Uranium-238		3.39	+/-0.171	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Company : Environmental Properties  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/15.9  
Sample ID: 499803055  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0322	+/-0.00370	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1105	1953945	1
Uranium-238		4.40	+/-0.221	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/6.5  
Sample ID: 499803056  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0320	+/-0.00370	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1107	1953945	1
Uranium-238		4.25	+/-0.214	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/8.5  
Sample ID: 499803057  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.0946	+/-0.00579	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1108	1953945	1
Uranium-238		8.61	+/-0.431	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953944

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/10.5  
 Sample ID: 499803058  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.517	+/-0.0261	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0750	1953947	1
Uranium-238		41.2	+/-2.06	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/12.5  
 Sample ID: 499803059  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.231	+/-0.0120	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0759	1953947	1
Uranium-238		19.1	+/-0.953	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/14.5  
Sample ID: 499803060  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0334	+/-0.00373	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0804	1953947	1
Uranium-238		3.36	+/-0.169	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/16.5  
 Sample ID: 499803061  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.229	+/-0.0119	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0806	1953947	1
Uranium-238		20.2	+/-1.01	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/18.5

Project: CMRN00919

Sample ID: 499803062

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0312	+/-0.00368	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0807	1953947	1
Uranium-238		3.23	+/-0.163	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/20.5  
Sample ID: 499803063  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	U	ND	+/-0.00335	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0809	1953947	1
Uranium-238		1.13	+/-0.0606	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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 615 N. Hudson  
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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/22.5  
 Sample ID: 499803064  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0483	+/-0.00412	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0813	1953947	1
Uranium-238		4.45	+/-0.224	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

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Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/24.5  
Sample ID: 499803065  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		64.9	+/-3.24	0.0670		0.200	ug/L	1.00	1	SKJ	01/21/20	0815	1953947	1
Uranium-235		0.801	+/-0.0406	0.0200		0.140	ug/L	1.00	2	SKJ	01/21/20	0949	1953947	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/10.6

Project: CMRN00919

Sample ID: 499803066

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0621	+/-0.00456	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0816	1953947	1
Uranium-238		8.33	+/-0.417	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/12.6  
Sample ID: 499803067  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0304	+/-0.00366	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0817	1953947	1
Uranium-238		4.11	+/-0.206	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Address : Management, LLC  
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Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/14.6

Project: CMRN00919

Sample ID: 499803068

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0135	+/-0.00340	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0819	1953947	1
Uranium-238		1.50	+/-0.0782	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/16.6  
Sample ID: 499803069  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	U	ND	+/-0.00334	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0820	1953947	1
Uranium-238		0.537	+/-0.0349	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
Lc/LC: Critical Level  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Mtd.: Method  
PF: Prep Factor  
RL: Reporting Limit  
TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/18.6  
Sample ID: 499803070  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	U	ND	+/-0.00334	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0822	1953947	1
Uranium-238		0.577	+/-0.0365	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/20.6  
 Sample ID: 499803071  
 Matrix: Water  
 Collect Date: 21-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.191	+/-0.0101	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0950	1953947	1
Uranium-238		17.1	+/-0.855	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/22.6  
Sample ID: 499803072  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		60.1	+/-3.00	0.0670		0.200	ug/L	1.00	1	SKJ	01/21/20	0951	1953947	1
Uranium-235		0.767	+/-0.0389	0.0200		0.140	ug/L	1.00	2	SKJ	01/21/20	1004	1953947	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/24.6

Sample ID: 499803073

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		69.9	+/-3.50	0.0670		0.200	ug/L	1.00	1	SKJ	01/21/20	0953	1953947	1
Uranium-235		0.915	+/-0.0463	0.0200		0.140	ug/L	1.00	2	SKJ	01/21/20	1006	1953947	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/27.6

Project: CMRN00919

Sample ID: 499803074

Client ID: CMRN001

Matrix: Water

Collect Date: 21-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.38	+/-0.0709	0.0500		0.350	ug/L	1.00	5	SKJ	01/21/20	1007	1953947	1
Uranium-238		112	+/-5.59	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/29.15  
Sample ID: 499803075  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.02	+/-0.102	0.0500		0.350	ug/L	1.00	5	SKJ	01/21/20	1009	1953947	1
Uranium-238		158	+/-7.90	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/9.7  
Sample ID: 499803076  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.0786	+/-0.00515	0.0100		0.0700	ug/L	1.00	1	SKJ	01/21/20	0957	1953947	1
Uranium-238		9.88	+/-0.494	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953946

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/11.7  
 Sample ID: 499803077  
 Matrix: Water  
 Collect Date: 22-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.197	+/-0.0104	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1256	1953949	1
Uranium-238		21.2	+/-1.06	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

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 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/13.7  
 Sample ID: 499803078  
 Matrix: Water  
 Collect Date: 22-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.437	+/-0.0221	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1303	1953949	1
Uranium-238		37.5	+/-1.87	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	



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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/15.7  
Sample ID: 499803079  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.569	+/-0.0286	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1313	1953949	1
Uranium-238		46.5	+/-2.32	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/17.7  
 Sample ID: 499803080  
 Matrix: Water  
 Collect Date: 22-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		76.2	+/-3.81	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1314	1953949	1
Uranium-235		0.938	+/-0.0498	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1358	1953949	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/19.7  
Sample ID: 499803081  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0103	+/-0.00337	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1316	1953949	1
Uranium-238		0.982	+/-0.0540	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/21.7  
Sample ID: 499803082  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0678	+/-0.00475	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1318	1953949	1
Uranium-238		6.09	+/-0.306	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/21.7DUP  
Sample ID: 499803083  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0657	+/-0.00468	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1319	1953949	1
Uranium-238		5.87	+/-0.294	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/23.7  
Sample ID: 499803084  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.253	+/-0.0131	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1321	1953949	1
Uranium-238		20.5	+/-1.02	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/25.7  
Sample ID: 499803085  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-238		61.4	+/-3.07	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1323	1953949	1
Uranium-235		0.760	+/-0.0415	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1359	1953949	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
Lc/LC: Critical Level  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Mtd.: Method  
PF: Prep Factor  
RL: Reporting Limit  
TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-07/27.7  
Sample ID: 499803086  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		99.1	+/-4.96	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1324	1953949	1
Uranium-235		1.23	+/-0.0638	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1401	1953949	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/10.0  
Sample ID: 499803087  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.189	+/-0.0100	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1326	1953949	1
Uranium-238		23.0	+/-1.15	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/12.0  
 Sample ID: 499803088  
 Matrix: Water  
 Collect Date: 22-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.287	+/-0.0147	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1331	1953949	1
Uranium-238		26.6	+/-1.33	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/14.0  
 Sample ID: 499803089  
 Matrix: Water  
 Collect Date: 22-DEC-19  
 Receive Date: 24-DEC-19  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.598	+/-0.0301	0.0100		0.0700	ug/L	1.00	1	BAJ	01/22/20	1333	1953949	1
Uranium-238		49.6	+/-2.48	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/16.0

Project: CMRN00919

Sample ID: 499803090

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-238		82.6	+/-4.13	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1334	1953949	1
Uranium-235		1.10	+/-0.0576	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1403	1953949	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/18.0

Project: CMRN00919

Sample ID: 499803091

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.53	+/-0.0783	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1404	1953949	1
Uranium-238		120	+/-6.01	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/20.0  
Sample ID: 499803092  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		95.0	+/-4.75	0.0670		0.200	ug/L	1.00	1	BAJ	01/22/20	1338	1953949	1
Uranium-235		1.26	+/-0.0654	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1406	1953949	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/22.0

Project: CMRN00919

Sample ID: 499803093

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.92	+/-0.0975	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1408	1953949	1
Uranium-238		148	+/-7.42	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/24.0  
Sample ID: 499803094  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.91	+/-0.0967	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1409	1953949	1
Uranium-238		149	+/-7.44	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/26.0  
Sample ID: 499803095  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.49	+/-0.126	0.0500		0.350	ug/L	1.00	5	BAJ	01/22/20	1411	1953949	1
Uranium-238		194	+/-9.70	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953948

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/28.0

Project: CMRN00919

Sample ID: 499803096

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.86	+/-0.0944	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1658	1953951	1
Uranium-238		145	+/-7.27	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/10.0

Project: CMRN00919

Sample ID: 499803097

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.107	+/-0.00631	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1522	1953951	1
Uranium-238		12.6	+/-0.628	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/12.0

Project: CMRN00919

Sample ID: 499803098

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0686	+/-0.00478	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1527	1953951	1
Uranium-238		7.59	+/-0.380	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/14.0  
Sample ID: 499803099  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.326	+/-0.0166	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1529	1953951	1
Uranium-238		26.9	+/-1.35	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/16.0  
Sample ID: 499803100  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		67.6	+/-3.38	0.0670		0.200	ug/L	1.00	1	SKJ	01/17/20	1530	1953951	1
Uranium-235		0.861	+/-0.0435	0.0200		0.140	ug/L	1.00	2	SKJ	01/17/20	1704	1953951	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/18.0  
Sample ID: 499803101  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.14	+/-0.108	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1706	1953951	1
Uranium-238		170	+/-8.48	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/20.0

Project: CMRN00919

Sample ID: 499803102

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.74	+/-0.138	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1637	1953951	1
Uranium-238		213	+/-10.7	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/22.0

Project: CMRN00919

Sample ID: 499803103

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.04	+/-0.103	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1638	1953951	1
Uranium-238		157	+/-7.85	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/28.0

Project: CMRN00919

Sample ID: 499803104

Client ID: CMRN001

Matrix: Water

Collect Date: 22-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.32	+/-0.117	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1640	1953951	1
Uranium-238		189	+/-9.45	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/10.0DUP  
Sample ID: 499803105  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235	J	0.0213	+/-0.00350	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1541	1953951	1
Uranium-238		2.98	+/-0.151	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-09/16.5DUP  
Sample ID: 499803106  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.212	+/-0.0111	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1542	1953951	1
Uranium-238		19.1	+/-0.954	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-08/22.6DUP  
Sample ID: 499803107  
Matrix: Water  
Collect Date: 21-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		59.4	+/-2.97	0.0670		0.200	ug/L	1.00	1	SKJ	01/17/20	1543	1953951	1
Uranium-235		0.729	+/-0.0371	0.0200		0.140	ug/L	1.00	2	SKJ	01/17/20	1641	1953951	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-06/22.0DUP  
Sample ID: 499803108  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.07	+/-0.105	0.0500		0.350	ug/L	1.00	5	SKJ	01/17/20	1643	1953951	1
Uranium-238		160	+/-7.98	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/10.5

Project: CMRN00919

Sample ID: 499803109

Client ID: CMRN001

Matrix: Water

Collect Date: 18-DEC-19

Receive Date: 24-DEC-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0687	+/-0.00479	0.0100		0.0700	ug/L	1.00	1	SKJ	01/17/20	1546	1953951	1
Uranium-238		6.30	+/-0.316	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: January 28, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-05/20.0DUP  
Sample ID: 499803110  
Matrix: Water  
Collect Date: 22-DEC-19  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.02	+/-0.102	0.0500		0.350	ug/L	1.00	5	SKJ	01/20/20	0956	1953951	1
Uranium-238		160	+/-7.98	0.335		1.00	ug/L	1.00	5					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	HH1	01/02/20	1620	1953950

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



# **Quality Control Summary**

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: January 28, 2020  
Page 1 of 7

**Client :** Environmental Properties Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma

**Contact:** Mr. Jeff Lux

**Workorder:** 499803

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1953941										
QC1204463575	499803001 DUP										
Uranium-235		0.0808		0.0807	ug/L	.124	^	(+/-0.0700)	BAJ	01/22/2014	14:35
	Uncert:	+/-0.00524		+/-0.00523							
Uranium-238		10.0		10.0	ug/L	.374		(0%-20%)			
	Uncert:	+/-0.501		+/-0.503							
QC1204463576	499803002 DUP										
Uranium-235		0.0784		0.0742	ug/L	5.5	^	(+/-0.0700)	BAJ	01/22/2014	14:42
	Uncert:	+/-0.00515		+/-0.00499							
Uranium-238		9.39		8.88	ug/L	5.57		(0%-20%)			
	Uncert:	+/-0.470		+/-0.444							
QC1204463574	LCS										
Uranium-235	0.360			0.347	ug/L			96.3 (85%-115%)	BAJ	01/22/2014	14:32
	Uncert:			+/-0.0177							
Uranium-238	49.6			48.3	ug/L			97.4 (85%-115%)			
	Uncert:			+/-2.42							
QC1204463573	MB										
Uranium-235			U	ND	ug/L				BAJ	01/22/2014	14:30
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463577	499803001 MS										
Uranium-235	0.360	0.0808		0.450	ug/L			102 (75%-125%)	BAJ	01/22/2014	14:37
	Uncert:	+/-0.00524		+/-0.0227							
Uranium-238	49.6	10.0		60.9	ug/L			103 (75%-125%)			
	Uncert:	+/-0.501		+/-3.05							
QC1204463578	499803002 MS										
Uranium-235	0.360	0.0784		0.421	ug/L			95 (75%-125%)	BAJ	01/22/2014	14:44
	Uncert:	+/-0.00515		+/-0.0213							
Uranium-238	49.6	9.39		56.9	ug/L			95.8 (75%-125%)			
	Uncert:	+/-0.470		+/-2.85							
QC1204463579	499803001 SDILT										
Uranium-235		0.0808	J	0.0840	ug/L	3.96		(0%-10%)	BAJ	01/22/2014	14:39
	Uncert:	+/-0.00524		+/-0.0172							
Uranium-238		10.0		10.5	ug/L	5.12		(0%-10%)			
	Uncert:	+/-0.501		+/-0.538							
QC1204463580	499803002 SDILT										
Uranium-235		0.0784	J	0.0750	ug/L	4.34		(0%-10%)	BAJ	01/22/2014	14:45
	Uncert:	+/-0.00515		+/-0.0171							
Uranium-238		9.39		9.39	ug/L	.0277		(0%-10%)			
	Uncert:	+/-0.470		+/-0.482							
Batch	1953943										

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## QC Summary

Workorder: 499803

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1953943										
QC1204463583	499803020 DUP										
Uranium-235	J	0.0600	J	0.0566	ug/L	5.83	^	(+/-0.0700)	BAJ	01/22/2011	18
	Uncert:	+/-0.00448		+/-0.00437							
Uranium-238		7.56		7.37	ug/L	2.51		(0%-20%)			
	Uncert:	+/-0.379		+/-0.369							
QC1204463584	499803021 DUP										
Uranium-235	J	0.0599	J	0.0568	ug/L	5.31	^	(+/-0.0700)	BAJ	01/22/2011	25
	Uncert:	+/-0.00448		+/-0.00438							
Uranium-238		7.44		7.34	ug/L	1.42		(0%-20%)			
	Uncert:	+/-0.373		+/-0.368							
QC1204463582	LCS										
Uranium-235		0.360		0.327	ug/L			90.9 (85%-115%)	BAJ	01/22/2011	15
	Uncert:			+/-0.0167							
Uranium-238		49.6		44.8	ug/L			90.3 (85%-115%)			
	Uncert:			+/-2.24							
QC1204463581	MB										
Uranium-235			U	ND	ug/L				BAJ	01/22/2011	13
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463585	499803020 MS										
Uranium-235	0.360	J	0.0600	0.391	ug/L			91.9 (75%-125%)	BAJ	01/22/2011	20
	Uncert:		+/-0.00448	+/-0.0198							
Uranium-238	49.6		7.56	54.0	ug/L			93.6 (75%-125%)			
	Uncert:		+/-0.379	+/-2.70							
QC1204463586	499803021 MS										
Uranium-235	0.360	J	0.0599	0.402	ug/L			95 (75%-125%)	BAJ	01/22/2011	27
	Uncert:		+/-0.00448	+/-0.0204							
Uranium-238	49.6		7.44	54.1	ug/L			93.9 (75%-125%)			
	Uncert:		+/-0.373	+/-2.70							
QC1204463587	499803020 SDILT										
Uranium-235	J	0.0600	J	0.0635	ug/L	5.83		(0%-10%)	BAJ	01/22/2011	22
	Uncert:	+/-0.00448		+/-0.0170							
Uranium-238		7.56		7.76	ug/L	2.65		(0%-10%)			
	Uncert:	+/-0.379		+/-0.404							
QC1204463588	499803021 SDILT										
Uranium-235	J	0.0599	J	0.0660	ug/L	10.2		(0%-10%)	BAJ	01/22/2011	28
	Uncert:	+/-0.00448		+/-0.0170							
Uranium-238		7.44		8.12	ug/L	9.04		(0%-10%)			
	Uncert:	+/-0.373		+/-0.421							
Batch	1953945										
QC1204463591	499803039 DUP										
Uranium-235	J	0.0207	J	0.0228	ug/L	9.66	^	(+/-0.0700)	BAJ	01/22/2010	24
	Uncert:	+/-0.00349		+/-0.00352							
Uranium-238		2.07		2.31	ug/L	10.6		(0%-20%)			
	Uncert:	+/-0.106		+/-0.117							
QC1204463592	499803040 DUP										

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## QC Summary

Workorder: 499803

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1953945										
Uranium-235	J	0.0695	J	0.0666	ug/L	4.26	^	(+/-0.0700)	BAJ	01/22/20	10:30
	Uncert:	+/-0.00482		+/-0.00471							
Uranium-238		9.37		8.99	ug/L	4.19		(0%-20%)			
	Uncert:	+/-0.469		+/-0.450							
QC1204463590	LCS										
Uranium-235	0.360			0.334	ug/L			(85%-115%)	BAJ	01/22/20	10:20
	Uncert:			+/-0.0170							
Uranium-238	49.6			45.7	ug/L			(85%-115%)			
	Uncert:			+/-2.29							
QC1204463589	MB										
Uranium-235			U	ND	ug/L				BAJ	01/22/20	10:19
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463593	499803039 MS										
Uranium-235	0.360	J	0.0207	0.377	ug/L			(75%-125%)	BAJ	01/22/20	10:25
	Uncert:		+/-0.00349	+/-0.0191							
Uranium-238	49.6		2.07	50.9	ug/L			(75%-125%)			
	Uncert:		+/-0.106	+/-2.54							
QC1204463594	499803040 MS										
Uranium-235	0.360	J	0.0695	0.401	ug/L			(75%-125%)	BAJ	01/22/20	10:32
	Uncert:		+/-0.00482	+/-0.0203							
Uranium-238	49.6		9.37	56.4	ug/L			(75%-125%)			
	Uncert:		+/-0.469	+/-2.82							
QC1204463595	499803039 SDILT										
Uranium-235	J	0.0207	U	ND	ug/L	.966		(0%-10%)	BAJ	01/22/20	10:27
	Uncert:	+/-0.00349		+/-0.0167							
Uranium-238		2.07		2.24	ug/L	7.97		(0%-10%)			
	Uncert:	+/-0.106		+/-0.158							
QC1204463596	499803040 SDILT										
Uranium-235	J	0.0695	J	0.0665	ug/L	4.32		(0%-10%)	BAJ	01/22/20	10:33
	Uncert:	+/-0.00482		+/-0.0170							
Uranium-238		9.37		9.30	ug/L	.762		(0%-10%)			
	Uncert:	+/-0.469		+/-0.478							
Batch	1953947										
QC1204463599	499803058 DUP										
Uranium-235		0.517		0.526	ug/L	1.65		(0%-20%)	SKJ	01/21/20	07:51
	Uncert:	+/-0.0261		+/-0.0265							
Uranium-238		41.2		40.8	ug/L	1.06		(0%-20%)			
	Uncert:	+/-2.06		+/-2.04							
QC1204463600	499803059 DUP										
Uranium-235		0.231		0.244	ug/L	5.51	^	(+/-0.0700)	SKJ	01/21/20	08:00
	Uncert:	+/-0.0120		+/-0.0127							
Uranium-238		19.1		19.8	ug/L	3.93		(0%-20%)			
	Uncert:	+/-0.953		+/-0.991							
QC1204463598	LCS										

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## QC Summary

Workorder: 499803

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1953947										
Uranium-235	0.360			0.392	ug/L		109	(85%-115%)	SKJ	01/21/2007:48	
	Uncert:			+/-0.0199							
Uranium-238	49.6			54.2	ug/L		109	(85%-115%)			
	Uncert:			+/-2.71							
QC1204463597	MB										
Uranium-235			U	ND	ug/L				SKJ	01/21/2007:47	
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463601	499803058 MS										
Uranium-235	0.360	0.517		0.876	ug/L		99.8	(75%-125%)	SKJ	01/21/2007:53	
	Uncert:	+/-0.0261		+/-0.0439							
Uranium-238	49.6	41.2		93.3	ug/L		105	(75%-125%)			
	Uncert:	+/-2.06		+/-4.67							
QC1204463602	499803059 MS										
Uranium-235	0.360	0.231		0.624	ug/L		109	(75%-125%)	SKJ	01/21/2008:01	
	Uncert:	+/-0.0120		+/-0.0314							
Uranium-238	49.6	19.1		71.9	ug/L		106	(75%-125%)			
	Uncert:	+/-0.953		+/-3.59							
QC1204463603	499803058 SDILT										
Uranium-235		0.517		0.469	ug/L	9.27		(0%-10%)	SKJ	01/21/2007:54	
	Uncert:	+/-0.0261		+/-0.0288							
Uranium-238		41.2		38.8	ug/L	5.89		(0%-10%)			
	Uncert:	+/-2.06		+/-1.94							
QC1204463604	499803059 SDILT										
Uranium-235		0.231	J	0.212	ug/L	8.34		(0%-10%)	SKJ	01/21/2008:03	
	Uncert:	+/-0.0120		+/-0.0198							
Uranium-238		19.1		19.5	ug/L	2.37		(0%-10%)			
	Uncert:	+/-0.953		+/-0.982							
Batch	1953949										
QC1204463607	499803077 DUP										
Uranium-235		0.197		0.197	ug/L	.0508 ^		(+/-0.0700)	BAJ	01/22/2012:58	
	Uncert:	+/-0.0104		+/-0.0104							
Uranium-238		21.2		20.7	ug/L	2.44		(0%-20%)			
	Uncert:	+/-1.06		+/-1.04							
QC1204463608	499803078 DUP										
Uranium-235		0.437		0.446	ug/L	2.06		(0%-20%)	BAJ	01/22/2013:04	
	Uncert:	+/-0.0221		+/-0.0225							
Uranium-238		37.5		38.5	ug/L	2.73		(0%-20%)			
	Uncert:	+/-1.87		+/-1.93							
QC1204463606	LCS										
Uranium-235	0.360			0.352	ug/L		97.7	(85%-115%)	BAJ	01/22/2012:54	
	Uncert:			+/-0.0179							
Uranium-238	49.6			48.5	ug/L		97.8	(85%-115%)			
	Uncert:			+/-2.43							
QC1204463605	MB										

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 499803

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1953949										
Uranium-235			U	ND	ug/L				BAJ	01/22/2012	12:53
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463609	499803077 MS										
Uranium-235	0.360	0.197		0.531	ug/L		92.7	(75%-125%)	BAJ	01/22/2012	12:59
	Uncert:	+/-0.0104		+/-0.0267							
Uranium-238	49.6	21.2		68.3	ug/L		94.8	(75%-125%)			
	Uncert:	+/-1.06		+/-3.42							
QC1204463610	499803078 MS										
Uranium-235	0.360	0.437		0.786	ug/L		96.9	(75%-125%)	BAJ	01/22/2013	06
	Uncert:	+/-0.0221		+/-0.0394							
Uranium-238	49.6	37.5		87.1	ug/L		100	(75%-125%)			
	Uncert:	+/-1.87		+/-4.36							
QC1204463611	499803077 SDILT										
Uranium-235		0.197	J	0.196	ug/L	.711		(0%-10%)	BAJ	01/22/2013	01
	Uncert:	+/-0.0104		+/-0.0193							
Uranium-238		21.2		21.1	ug/L	.58		(0%-10%)			
	Uncert:	+/-1.06		+/-1.06							
QC1204463612	499803078 SDILT										
Uranium-235		0.437		0.459	ug/L	4.94		(0%-10%)	BAJ	01/22/2013	08
	Uncert:	+/-0.0221		+/-0.0283							
Uranium-238		37.5		39.5	ug/L	5.5		(0%-10%)			
	Uncert:	+/-1.87		+/-1.98							
Batch	1953951										
QC1204463615	499803096 DUP										
Uranium-235		1.86		1.92	ug/L	3.07		(0%-20%)	SKJ	01/17/2017	00
	Uncert:	+/-0.0944		+/-0.0972							
Uranium-238		145		150	ug/L	2.75		(0%-20%)			
	Uncert:	+/-7.27		+/-7.48							
QC1204463616	499803097 DUP										
Uranium-235		0.107		0.107	ug/L	.374 ^		(+/-0.0700)	SKJ	01/17/2015	23
	Uncert:	+/-0.00631		+/-0.00629							
Uranium-238		12.6		12.9	ug/L	2.38		(0%-20%)			
	Uncert:	+/-0.628		+/-0.644							
QC1204463614	LCS										
Uranium-235	0.360			0.359	ug/L		99.6	(85%-115%)	SKJ	01/17/2015	11
	Uncert:			+/-0.0182							
Uranium-238	49.6			50.0	ug/L		101	(85%-115%)			
	Uncert:			+/-2.50							
QC1204463613	MB										
Uranium-235			U	ND	ug/L				SKJ	01/17/2015	10
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204463617	499803096 MS										

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## QC Summary

Workorder: 499803

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
<b>Metals Analysis - ICPMS</b>									
Batch	1953951								
Uranium-235	0.360	1.86	2.26	ug/L		N/A	(75%-125%)	SKJ	01/17/2017:01
	Uncert:	+/-0.0944	+/-0.114						
Uranium-238	49.6	145	201	ug/L		112	(75%-125%)		
	Uncert:	+/-7.27	+/-10.1						
QC1204463618	499803097 MS								
Uranium-235	0.360	0.107	0.470	ug/L		101	(75%-125%)	SKJ	01/17/2015:25
	Uncert:	+/-0.00631	+/-0.0237						
Uranium-238	49.6	12.6	63.0	ug/L		102	(75%-125%)		
	Uncert:	+/-0.628	+/-3.15						
QC1204463619	499803096 SDILT								
Uranium-235		1.86	1.80	ug/L	3.23		(0%-10%)	SKJ	01/17/2017:03
	Uncert:	+/-0.0944	+/-0.123						
Uranium-238		145	143	ug/L	1.61		(0%-10%)		
	Uncert:	+/-7.27	+/-7.18						
QC1204463620	499803097 SDILT								
Uranium-235		0.107	J 0.104	ug/L	2.99		(0%-10%)	SKJ	01/17/2015:26
	Uncert:	+/-0.00631	+/-0.0175						
Uranium-238		12.6	12.8	ug/L	2.08		(0%-10%)		
	Uncert:	+/-0.628	+/-0.651						

**Notes:**

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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## QC Summary

Workorder: 499803

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
----------	-----	-------------	----	-------	------	------	-------	-------	------	------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

\*\* Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



# General Chem Analysis

# Case Narrative

**General Chemistry  
Technical Case Narrative  
Burns & McDonnell  
SDG #: 499803**

**Product:** Nitrate Nitrite by Cadmium Reduction

**Analytical Method:** EPA 353.2

**Analytical Procedure:** GL-GC-E-128 REV# 10

**Analytical Batches:** 1953665, 1953667 and 1955194

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
499803001	GE-WAA-15/7.6
499803002	GE-WAA-15/9.6
499803003	GE-WAA-15/11.6
499803004	GE-WAA-15/13.6
499803005	GE-WAA-15/15.6
499803006	GE-WAA-15/17.6
499803007	GE-WAA-15/19.6
499803008	GE-WAA-15/21.6
499803009	GE-WAA-15/23.6
499803010	GE-WAA-15/23.6DUP
499803011	GE-WAA-15/25.6
499803012	GE-WAA-14/8.5
499803013	GE-WAA-14/12.5
499803014	GE-WAA-14/14.5
499803015	GE-WAA-14/16.5
499803016	GE-WAA-14/24.5
499803017	GE-WAA-14/26.5
499803029	GE-WAA-09/8.0
499803030	GE-WAA-09/10.0
499803031	GE-WAA-09/12.0
499803032	GE-WAA-09/12.0DUP
499803033	GE-WAA-09/14.0
499803034	GE-WAA-09/15.0
499803035	GE-WAA-10/7.5
499803036	GE-WAA-10/9.5
499803037	GE-WAA-10/11.5
499803038	GE-WAA-10/13.5
499803039	GE-WAA-10/14.75
499803040	GE-WAA-11/7.6
499803041	GE-WAA-11/10.6
499803042	GE-WAA-11/12.6
499803043	GE-WAA-11/12.6DUP
499803044	GE-WAA-11/14.6
499803045	GE-WAA-12/7.0
499803046	GE-WAA-12/9.0
499803047	GE-WAA-12/11.0
499803048	GE-WAA-12/13.0
499803049	GE-WAA-12/15.0
499803050	GE-WAA-12/16.15
499803051	GE-WAA-13/8.0
499803052	GE-WAA-13/10.0
499803053	GE-WAA-13/12.0

499803054	GE-WAA-13/14.0
499803055	GE-WAA-13/15.9
499803105	GE-WAA-13/10.0DUP
499803109	GE-WAA-14/10.5
1204462985	Method Blank (MB)
1204462986	Laboratory Control Sample (LCS)
1204462987	499803001(GE-WAA-15/7.6) Sample Duplicate (DUP)
1204462988	499803002(GE-WAA-15/9.6) Sample Duplicate (DUP)
1204462989	499803001(GE-WAA-15/7.6) Post Spike (PS)
1204462990	499803002(GE-WAA-15/9.6) Post Spike (PS)
1204462991	Method Blank (MB)
1204462992	Laboratory Control Sample (LCS)
1204462993	499803031(GE-WAA-09/12.0) Sample Duplicate (DUP)
1204462994	499803032(GE-WAA-09/12.0DUP) Sample Duplicate (DUP)
1204462995	499803031(GE-WAA-09/12.0) Post Spike (PS)
1204462996	499803032(GE-WAA-09/12.0DUP) Post Spike (PS)
1204466451	Method Blank (MB)
1204466452	Laboratory Control Sample (LCS)
1204466453	499803051(GE-WAA-13/8.0) Sample Duplicate (DUP)
1204466454	499803051(GE-WAA-13/8.0) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Dilutions**

The following samples 1204462987 (GE-WAA-15/7.6DUP), 1204462988 (GE-WAA-15/9.6DUP), 1204462989 (GE-WAA-15/7.6PS), 1204462990 (GE-WAA-15/9.6PS), 499803001 (GE-WAA-15/7.6), 499803002 (GE-WAA-15/9.6), 499803003 (GE-WAA-15/11.6), 499803004 (GE-WAA-15/13.6), 499803005 (GE-WAA-15/15.6), 499803006 (GE-WAA-15/17.6), 499803007 (GE-WAA-15/19.6), 499803008 (GE-WAA-15/21.6), 499803009 (GE-WAA-15/23.6), 499803010 (GE-WAA-15/23.6DUP), 499803011 (GE-WAA-15/25.6), 499803013 (GE-WAA-14/12.5), 499803014 (GE-WAA-14/14.5), 499803015 (GE-WAA-14/16.5), 499803016 (GE-WAA-14/24.5), 499803017 (GE-WAA-14/26.5), 499803029 (GE-WAA-09/8.0), 499803030 (GE-WAA-09/10.0), 499803109 (GE-WAA-14/10.5), 1204462993 (GE-WAA-09/12.0DUP), 1204462994 (GE-WAA-09/12.0DUPDUP), 1204462995 (GE-WAA-09/12.0PS), 1204462996 (GE-WAA-09/12.0DUPPS), 499803031 (GE-WAA-09/12.0), 499803032 (GE-WAA-09/12.0DUP), 499803033 (GE-WAA-09/14.0), 499803034 (GE-WAA-09/15.0), 499803035 (GE-WAA-10/7.5), 499803036 (GE-WAA-10/9.5), 499803037 (GE-WAA-10/11.5), 499803038 (GE-WAA-10/13.5), 499803039 (GE-WAA-10/14.75), 499803040 (GE-WAA-11/7.6), 499803041 (GE-WAA-11/10.6), 499803042 (GE-WAA-11/12.6), 499803043 (GE-WAA-11/12.6DUP), 499803044 (GE-WAA-11/14.6), 499803045 (GE-WAA-12/7.0), 499803046 (GE-WAA-12/9.0), 499803047 (GE-WAA-12/11.0), 499803048 (GE-WAA-12/13.0), 499803049 (GE-WAA-12/15.0), 499803050 (GE-WAA-12/16.15), 499803052 (GE-WAA-13/10.0), 499803053 (GE-WAA-13/12.0) and 499803105 (GE-WAA-13/10.0DUP) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	499803									
	001	002	003	004	005	006	007	008	009	010

<b>Nitrogen, Nitrate/Nitrite</b>	50X	100X	100X	100X	250X	250X	250X	250X	250X	250X
----------------------------------	-----	------	------	------	------	------	------	------	------	------

Analyte	<b>499803</b>										
	<b>011</b>	<b>013</b>	<b>014</b>	<b>015</b>	<b>016</b>	<b>017</b>	<b>029</b>	<b>030</b>	<b>031</b>	<b>032</b>	
Nitrogen, Nitrate/Nitrite	250X	10X	100X	250X	250X	100X	100X	50X	25X	25X	

Analyte	<b>499803</b>									
	<b>033</b>	<b>034</b>	<b>035</b>	<b>036</b>	<b>037</b>	<b>038</b>	<b>039</b>	<b>040</b>	<b>041</b>	<b>042</b>
Nitrogen, Nitrate/Nitrite	10X	5X	250X	250X	250X	250X	250X	5X	50X	50X

Analyte	<b>499803</b>										
	<b>043</b>	<b>044</b>	<b>045</b>	<b>046</b>	<b>047</b>	<b>048</b>	<b>049</b>	<b>050</b>	<b>052</b>	<b>053</b>	
Nitrogen, Nitrate/Nitrite	50X	10X	50X	10X	100X	100X	100X	100X	5X	5X	

Analyte	<b>499803</b>	
	<b>105</b>	<b>109</b>
Nitrogen, Nitrate/Nitrite	5X	10X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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### Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 499803 GEL Work Order: 499803

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:**



**Name: Aubrey Kingsbury**

**Date: 16 JAN 2020**

**Title: Data Validator**

# **Sample Data Summary**

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/7.6      Project: CMRN00919  
Sample ID: 499803001      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 13:40  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		2.51	0.850	2.50	mg/L		50	AXH3	01/06/20	0929	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/9.6      Project: CMRN00919  
Sample ID: 499803002      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 14:05  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		15.7	1.70	5.00	mg/L		100	AXH3	01/06/20	0937	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/11.6  
Sample ID: 499803003  
Matrix: Water  
Collect Date: 17-DEC-19 14:30  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		23.2	1.70	5.00	mg/L		100	AXH3	01/06/20	0941	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/13.6      Project: CMRN00919  
Sample ID: 499803004      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 14:45  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		24.6	1.70	5.00	mg/L		100	AXH3	01/06/20	0942	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/15.6      Project: CMRN00919  
Sample ID: 499803005      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 15:10  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		48.8	4.25	12.5	mg/L		250	AXH3	01/06/20	0943	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/17.6      Project: CMRN00919  
Sample ID: 499803006      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 15:25  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		70.0	4.25	12.5	mg/L		250	AXH3	01/06/20	0944	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/19.6  
Sample ID: 499803007  
Matrix: Water  
Collect Date: 17-DEC-19 15:40  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		47.8	4.25	12.5	mg/L		250	AXH3	01/06/20	0945	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/21.6      Project: CMRN00919  
Sample ID: 499803008      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 16:35  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		45.8	4.25	12.5	mg/L		250	AXH3	01/06/20	0951	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/23.6      Project: CMRN00919  
Sample ID: 499803009      Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 16:46  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		50.3	4.25	12.5	mg/L		250	AXH3	01/06/20	0952	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/23.6DUP  
Sample ID: 499803010  
Matrix: Water  
Collect Date: 17-DEC-19 16:46  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		50.0	4.25	12.5	mg/L		250	AXH3	01/06/20	0954	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-15/25.6 Project: CMRN00919  
Sample ID: 499803011 Client ID: CMRN001  
Matrix: Water  
Collect Date: 17-DEC-19 17:10  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		54.3	4.25	12.5	mg/L		250	AXH3	01/06/20	0955	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/8.5      Project: CMRN00919  
Sample ID: 499803012      Client ID: CMRN001  
Matrix: Water  
Collect Date: 18-DEC-19 09:37  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.926	0.0170	0.0500	mg/L		1	AXH3	01/06/20	0956	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/12.5  
Sample ID: 499803013  
Matrix: Water  
Collect Date: 18-DEC-19 10:10  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		8.40	0.170	0.500	mg/L		10	AXH3	01/06/20	0957	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/14.5      Project: CMRN00919  
Sample ID: 499803014      Client ID: CMRN001  
Matrix: Water  
Collect Date: 18-DEC-19 10:22  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		62.2	1.70	5.00	mg/L		100	AXH3	01/06/20	0958	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/16.5  
Sample ID: 499803015  
Matrix: Water  
Collect Date: 18-DEC-19 10:32  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		77.8	4.25	12.5	mg/L		250	AXH3	01/06/20	1000	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/24.5  
Sample ID: 499803016  
Matrix: Water  
Collect Date: 18-DEC-19 13:45  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		129	4.25	12.5	mg/L		250	AXH3	01/06/20	1001	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/26.5  
Sample ID: 499803017  
Matrix: Water  
Collect Date: 18-DEC-19 14:53  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		54.2	1.70	5.00	mg/L		100	AXH3	01/06/20	1002	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit



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Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/8.0 Project: CMRN00919  
Sample ID: 499803029 Client ID: CMRN001  
Matrix: Water  
Collect Date: 19-DEC-19 14:15  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		31.2	1.70	5.00	mg/L		100	AXH3	01/06/20	1008	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
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Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/10.0      Project: CMRN00919  
Sample ID: 499803030      Client ID: CMRN001  
Matrix: Water  
Collect Date: 19-DEC-19 14:26  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		22.3	0.850	2.50	mg/L		50	AXH3	01/06/20	1009	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/12.0 Project: CMRN00919  
Sample ID: 499803031 Client ID: CMRN001  
Matrix: Water  
Collect Date: 19-DEC-19 14:37  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		16.5	0.425	1.25	mg/L		25	AXH3	01/06/20	1014	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor                      Lc/LC: Critical Level  
DL: Detection Limit                      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

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Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/12.0DUP  
Sample ID: 499803032  
Matrix: Water  
Collect Date: 19-DEC-19 14:37  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		16.6	0.425	1.25	mg/L		25	AXH3	01/06/20	1017	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/14.0 Project: CMRN00919  
Sample ID: 499803033 Client ID: CMRN001  
Matrix: Water  
Collect Date: 19-DEC-19 14:53  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		6.61	0.170	0.500	mg/L		10	AXH3	01/06/20	1026	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-09/15.0      Project: CMRN00919  
Sample ID: 499803034      Client ID: CMRN001  
Matrix: Water  
Collect Date: 19-DEC-19 15:07  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		3.68	0.0850	0.250	mg/L		5	AXH3	01/06/20	1027	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/7.5  
Sample ID: 499803035  
Matrix: Water  
Collect Date: 20-DEC-19 08:18  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		118	4.25	12.5	mg/L		250	AXH3	01/06/20	1028	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/9.5  
Sample ID: 499803036  
Matrix: Water  
Collect Date: 20-DEC-19 08:33  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		131	4.25	12.5	mg/L		250	AXH3	01/06/20	1029	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit



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Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/11.5  
Sample ID: 499803037  
Matrix: Water  
Collect Date: 20-DEC-19 08:50  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		114	4.25	12.5	mg/L		250	AXH3	01/06/20	1030	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/13.5  
Sample ID: 499803038  
Matrix: Water  
Collect Date: 20-DEC-19 09:05  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		67.5	4.25	12.5	mg/L		250	AXH3	01/06/20	1032	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-10/14.75  
Sample ID: 499803039  
Matrix: Water  
Collect Date: 20-DEC-19 09:27  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		32.5	4.25	12.5	mg/L		250	AXH3	01/06/20	1033	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/7.6  
Sample ID: 499803040  
Matrix: Water  
Collect Date: 20-DEC-19 11:15  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		3.48	0.0850	0.250	mg/L		5	AXH3	01/06/20	1034	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/10.6      Project: CMRN00919  
Sample ID: 499803041      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 11:41  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		22.9	0.850	2.50	mg/L		50	AXH3	01/06/20	1035	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/12.6      Project: CMRN00919  
Sample ID: 499803042      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 11:53  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		11.6	0.850	2.50	mg/L		50	AXH3	01/06/20	1041	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/12.6DUP  
Sample ID: 499803043  
Matrix: Water  
Collect Date: 20-DEC-19 11:53  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		11.4	0.850	2.50	mg/L		50	AXH3	01/06/20	1042	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-11/14.6      Project: CMRN00919  
Sample ID: 499803044      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 12:07  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		7.42	0.170	0.500	mg/L		10	AXH3	01/06/20	1043	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/7.0      Project: CMRN00919  
Sample ID: 499803045      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 14:14  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		17.1	0.850	2.50	mg/L		50	AXH3	01/06/20	1045	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
 Address : 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102  
 Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/9.0      Project: CMRN00919  
 Sample ID: 499803046      Client ID: CMRN001  
 Matrix: Water  
 Collect Date: 20-DEC-19 14:27  
 Receive Date: 24-DEC-19  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		13.9	0.170	0.500	mg/L		10	AXH3	01/06/20	1046	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/11.0      Project: CMRN00919  
Sample ID: 499803047      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 14:41  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		23.0	1.70	5.00	mg/L		100	AXH3	01/06/20	1047	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/13.0  
Sample ID: 499803048  
Matrix: Water  
Collect Date: 20-DEC-19 14:55  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		18.7	1.70	5.00	mg/L		100	AXH3	01/06/20	1048	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/15.0  
Sample ID: 499803049  
Matrix: Water  
Collect Date: 20-DEC-19 15:09  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		28.2	1.70	5.00	mg/L		100	AXH3	01/06/20	1049	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-12/16.15      Project: CMRN00919  
Sample ID: 499803050      Client ID: CMRN001  
Matrix: Water  
Collect Date: 20-DEC-19 15:26  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		42.0	1.70	5.00	mg/L		100	AXH3	01/06/20	1051	1953667	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/8.0  
Sample ID: 499803051  
Matrix: Water  
Collect Date: 21-DEC-19 08:31  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.149	0.0170	0.0500	mg/L		1	AXH3	01/06/20	0904	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/10.0      Project: CMRN00919  
Sample ID: 499803052      Client ID: CMRN001  
Matrix: Water  
Collect Date: 21-DEC-19 08:46  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.77	0.0850	0.250	mg/L		5	AXH3	01/06/20	0908	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/12.0      Project: CMRN00919  
Sample ID: 499803053      Client ID: CMRN001  
Matrix: Water  
Collect Date: 21-DEC-19 09:01  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.51	0.0850	0.250	mg/L		5	AXH3	01/06/20	0909	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/14.0      Project: CMRN00919  
Sample ID: 499803054      Client ID: CMRN001  
Matrix: Water  
Collect Date: 21-DEC-19 09:14  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.538	0.0170	0.0500	mg/L		1	AXH3	01/06/20	0910	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/15.9      Project: CMRN00919  
Sample ID: 499803055      Client ID: CMRN001  
Matrix: Water  
Collect Date: 21-DEC-19 09:30  
Receive Date: 24-DEC-19  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.512	0.0170	0.0500	mg/L		1	AXH3	01/06/20	0911	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-13/10.0DUP  
Sample ID: 499803105  
Matrix: Water  
Collect Date: 21-DEC-19 08:46  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.80	0.0850	0.250	mg/L		5	AXH3	01/06/20	0912	1955194	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 29, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-14/10.5  
Sample ID: 499803109  
Matrix: Water  
Collect Date: 18-DEC-19 09:53  
Receive Date: 24-DEC-19  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		6.69	0.170	0.500	mg/L		10	AXH3	01/06/20	1010	1953665	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

# **Quality Control Summary**

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: January 29, 2020

Page 1 of 3

Environmental Properties Management, LLC

615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 499803

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Nutrient Analysis</b>											
Batch	1953665										
QC1204462987	499803001	DUP									
Nitrogen, Nitrate/Nitrite		2.51	J	2.47	mg/L	1.41	^	(+/-2.50)	AXH3	01/06/20	09:35
QC1204462988	499803002	DUP									
Nitrogen, Nitrate/Nitrite		15.7		15.3	mg/L	2.58	^	(+/-5.00)		01/06/20	09:38
QC1204462986	LCS										
Nitrogen, Nitrate/Nitrite	1.00			0.983	mg/L			(90%-110%)		01/06/20	09:28
QC1204462985	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					01/06/20	09:26
QC1204462989	499803001	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.0501		1.03	mg/L			(90%-110%)		01/06/20	09:36
QC1204462990	499803002	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.157		1.15	mg/L			(90%-110%)		01/06/20	09:40
Batch	1953667										
QC1204462993	499803031	DUP									
Nitrogen, Nitrate/Nitrite		16.5		16.5	mg/L	0.303		(0%-20%)	AXH3	01/06/20	10:15
QC1204462994	499803032	DUP									
Nitrogen, Nitrate/Nitrite		16.6		16.4	mg/L	1.21		(0%-20%)		01/06/20	10:19
QC1204462992	LCS										
Nitrogen, Nitrate/Nitrite	1.00			0.946	mg/L			(90%-110%)		01/06/20	10:13
QC1204462991	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					01/06/20	10:11

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 499803

Page 2 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Nutrient Analysis</b>											
Batch	1953667										
QC1204462995	499803031	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.658		1.58	mg/L		92.2	(90%-110%)	AXH3	01/06/20	10:16
QC1204462996	499803032	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.663		1.57	mg/L		90.7	(90%-110%)		01/06/20	10:24
Batch	1955194										
QC1204466453	499803051	DUP									
Nitrogen, Nitrate/Nitrite		0.149		0.148	mg/L	0.673 ^		(+/-0.0500)	AXH3	01/06/20	09:05
QC1204466452	LCS										
Nitrogen, Nitrate/Nitrite	1.00			0.980	mg/L		98	(90%-110%)		01/06/20	09:03
QC1204466451	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					01/06/20	09:02
QC1204466454	499803051	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.149		1.10	mg/L		95.1	(90%-110%)		01/06/20	09:06

**Notes:**

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.



# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 499803

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
R											
U											
X											
Z											
^											
d											
e											
h											

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

February 11, 2020

Mr. Jeff Lux  
Environmental Properties Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Re: Vertical Profiling 2019  
Work Order: 500839

Dear Mr. Lux:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 10, 2020. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This package was revised to include the Chain of Custody page 6 of 8.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

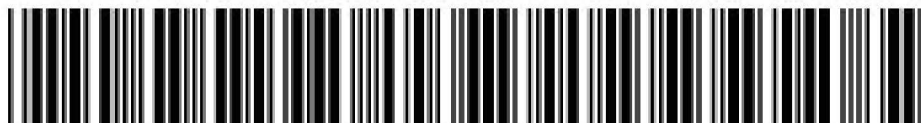
Sincerely,

Julie Robinson  
Project Manager

Purchase Order: 160247

Chain of Custody: 2019-46, 2019-47, 2020-001, 2020-002, 2020-003, 2020-003,2020-004, 2020-004,  
2020-004,2020-005, 2020-005, 2020-005,2020-006 and 2020-006

Enclosures



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# Case Narrative

This package was revised to include the Chain of Custody page 6 of 8.

**CASE NARRATIVE**  
**for**  
**Burns & McDonnell**  
**Vertical Profiling 2019**  
**SDG:500839**

**February 11, 2020**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary**

**Sample receipt** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 10, 2020 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Items of Note** There are no additional items of note concerning this SDG.

**Sample Identification** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
500839001	GE-BA1-04/9.5
500839002	GE-BA1-04/11.5
500839003	GE-BA1-04/13.5
500839004	GE-BA1-04/15.5
500839005	GE-BA1-04/17.5
500839006	GE-BA1-04/19.5
500839007	GE-BA1-04/21.5
500839008	GE-BA1-04/23.5
500839009	GE-BA1-04/23.5DUP
500839010	GE-BA1-03/12.45
500839011	GE-BA1-03/13.4
500839012	GE-BA1-03/13.4DUP
500839013	GE-BA1-03/15.4
500839014	GE-BA1-03/17.4
500839015	GE-BA1-03/25.0
500839016	GE-BA1-02/9.8
500839017	GE-BA1-02/11.8
500839018	GE-BA1-02/13.8
500839019	GE-BA1-02/15.8
500839020	GE-BA1-02/17.8
500839021	GE-BA1-02/17.8DUP
500839022	GE-BA1-02/19.35
500839023	GE-WAA-04/8.0
500839024	GE-WAA-04/10.0
500839025	GE-WAA-04/10.0DUP

500839026	GE-WAA-04/12.0
500839027	GE-WAA-04/16.0
500839028	GE-WAA-04/18.0
500839029	GE-WAA-04/20.0
500839030	GE-WAA-04/22.0
500839031	GE-WAA-04/25.75
500839032	GE-WAA-01/8.7
500839033	GE-WAA-01/10.7
500839034	GE-WAA-01/12.7
500839035	GE-WAA-01/12.7DUP
500839036	GE-WAA-01/14.7
500839037	GE-WAA-01/16.7
500839038	GE-WAA-01/18.7
500839039	GE-WAA-01/26.6
500839040	GE-WAA-02/8.5
500839041	GE-WAA-02/10.5
500839042	GE-WAA-02/12.5
500839043	GE-WAA-02/14.5
500839044	GE-WAA-02/16.5
500839045	GE-WAA-02/18.5
500839046	GE-WAA-02/20.5
500839047	GE-WAA-02/26.5
500839048	GE-WAA-03/10.3
500839049	GE-WAA-03/12.3
500839050	GE-WAA-03/14.3
500839051	GE-WAA-03/16.3
500839052	GE-WAA-03/18.3
500839053	GE-WAA-06/8.9
500839054	GE-WAA-06/10.9
500839055	GE-WAA-06/10.9DUP
500839056	GE-WAA-06/12.9
500839057	GE-WAA-06/14.9
500839058	GE-WAA-07/8.0
500839059	GE-WAA-07/10.0
500839060	GE-WAA-07/12.0
500839061	GE-WAA-07/14.0
500839062	GE-WAA-07/16.0
500839063	GE-WAA-07/18.0
500839064	GE-WAA-08/8.7
500839065	GE-WAA-02/26.5DUP
500839066	GE-WAA-08/10.7
500839067	GE-WAA-08/10.7DUP
500839068	GE-WAA-08/12.7
500839069	GE-WAA-08/14.7
500839070	GE-WAA-08/16.7
500839071	GE-WAA-08/18.7

### **Case Narrative**

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

### **Data Package**

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Metals.

This data package, to the best of my knowledge, is in compliance with technical and administrative requirements.



Julie Robinson  
Project Manager



# **Chain of Custody and Supporting Documentation**

**ORIGINAL**

500839

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

COC #: 2019-46

SHIP TO:  
 Company Name: GEL Laboratories LLC  
 Address: 2040 Savage Road  
 Address: Charleston, SC 29407  
 Contact Person: Julie Robinson  
 Phone: 843-769-7393

SHIP FROM:  
 Environmental Properties Management  
 100 N. Hwy 74  
 Guthrie, OK 73044  
 2019 Vertical Profiling  
 Contact Person: Jeff Lux  
 Phone: 405-642-5152

ANALYSIS REQUESTED

U-235/238 (EPA 200.8)

I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES.  
 SAMPLER SIGNATURE: 

SITE: CIMARRON FACILITY

SAMPLE TYPE



SAMPLE			CONTAINER			SOLID		WATER		
ID	DATE	TIME	NO.	TYPE	SIZE	SOIL	OTHER	"X" IF WATER	PRESERV.	FILTERED 45µ Y/N
GE-BA1-04/9.5	12/23/2019	903	1	P	250 ml			X	HNO3	Y
GE-BA1-04/11.5	12/23/2019	914	1	P	250 ml			X	HNO3	Y
GE-BA1-04/13.5	12/23/2019	930	1	P	250 ml			X	HNO3	Y
GE-BA1-04/15.5	12/23/2019	941	1	P	250 ml			X	HNO3	Y
GE-BA1-04/17.5	12/23/2019	951	1	P	250 ml			X	HNO3	Y
GE-BA1-04/19.5	12/23/2019	1002	1	P	250 ml			X	HNO3	Y
GE-BA1-04/21.5	12/23/2019	1011	1	P	250 ml			X	HNO3	Y
GE-BA1-04/23.5	12/23/2019	1020	1	P	250 ml			X	HNO3	Y
GE-BA1-04/23.5DUP	12/23/2019	1020	1	P	250 ml			X	HNO3	Y
GE-BA1-03/12.45	12/23/2019	1242	1	P	250 ml			X	HNO3	Y
GE-BA1-03/13.4	12/23/2019	1259	1	P	250 ml			X	HNO3	Y
GE-BA1-03/13.4DUP	12/23/2019	1259	1	P	250 ml			X	HNO3	Y

Potential Hazardous Characteristics  
 Non-Haz     RCRA D001,2&3, or 4     RCRA Listed     Radioactive     Unknown

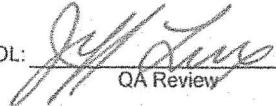
Sample Disposal  
 Disposal Lab     Return to Client     Holding pending further instructions

THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS: HP INITIAL: **OK**


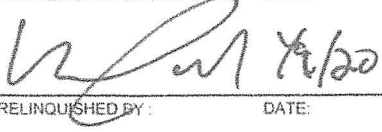

PROJECT NAME: VERTICAL PROFILING 2019      PO#: 160247

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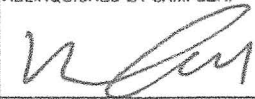

HARD COPY REPORT (.PDF), GEL EDD, and EQUIS EDD TO:  
 (Report Level?) EQUIS [dhorne@burnsmcd.com](mailto:dhorne@burnsmcd.com); [jlux@envpm.com](mailto:jlux@envpm.com);  
[slawrence@burnsmcd.com](mailto:slawrence@burnsmcd.com)

DOCUMENT CONTROL:  QA Review


DATE: 1/9/2020


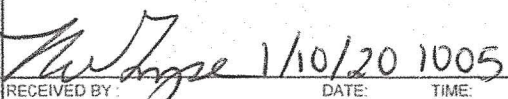
CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2019-47													
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152				ANALYSIS REQUESTED													
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES SAMPLER SIGNATURE: 						SAMPLE TYPE				U-235/238 (EPA 200.8)													
SITE: CIMARRON FACILITY																							
SAMPLE			CONTAINER			SOLID		WATER															
ID	DATE	TIME	NO	TYPE	SIZE	SOIL	OTHER	"X" IF WATER	PRESERV	FILTERED 45µ Y/N													
GE-BA1-03/15.4	12/23/2019	1309	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-03/17.4	12/23/2019	1318	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-03/25.0	12/23/2019	1351	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/9.8	12/23/2019	1445	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/11.8	12/23/2019	1455	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/13.8	12/23/2019	1504	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/15.8	12/23/2019	1513	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/17.8	12/23/2019	1526	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/17.8DUP	12/23/2019	1526	1	P	250 ml			X	HNO3	Y	X												
GE-BA1-02/19.35	12/23/2019	1548	1	P	250 ml			X	HNO3	Y	X												
Potential Hazardous Characteristics <input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						Sample Disposal <input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions																	
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <b>DK</b>																	
PROJECT NAME: VERTICAL PROFILING 2019										PO#: 160247													
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RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:								



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2020-001							
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152				ANALYSIS REQUESTED							
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 										U-235/238 (EPA 200.8)							
SITE: CIMARRON FACILITY						SAMPLE TYPE											
SAMPLE			CONTAINER			SOLID		WATER									
ID	DATE	TIME	NO.	TYPE	SIZE	SOIL	OTHER	"X" IF WATER	PRESERV.	FILTERED .45µ Y/N							
GE-WAA-04/8.0	1/6/2020	1204	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/10.0	1/6/2020	1217	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/10.0DUP	1/6/2020	1217	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/12.0	1/6/2020	1228	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/16.0	1/6/2020	1246	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/18.0	1/6/2020	1306	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/20.0	1/6/2020	1321	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/22.0	1/6/2020	1335	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-04/25.75	1/6/2020	1357	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-01/8.7	1/6/2020	1518	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-01/10.7	1/6/2020	1531	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-01/12.7	1/6/2020	1542	1	P	250 ml			X	HNO3	Y	X						
Potential Hazardous Characteristics <input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						Sample Disposal <input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions											
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <b>OK</b>											
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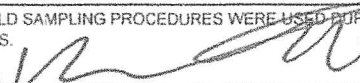


  
QA Review



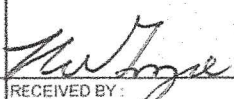
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SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152					ANALYSIS REQUESTED									
											I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 					U-235/238 (EPA 200.8)				
SITE: CIMARRON FACILITY						SAMPLE TYPE														
SOLID			WATER																	
						"X" IF		PRESERV.	FILTERED											
						WATER			.45µ Y/N											
GE-WAA-01/12.7DUP	1/6/2020	1542	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-01/14.7	1/6/2020	1552	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-01/16.7	1/6/2020	1602	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-01/18.7	1/6/2020	1611	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-01/26.6	1/6/2020	1645	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/8.5	1/7/2020	950	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/10.5	1/7/2020	1001	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/12.5	1/7/2020	1010	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/14.5	1/7/2020	1019	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/16.5	1/7/2020	1028	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/18.5	1/7/2020	1054	1	P	250 ml			X	HNO3	Y	X									
GE-WAA-02/20.5	1/7/2020	1116	1	P	250 ml			X	HNO3	Y	X									

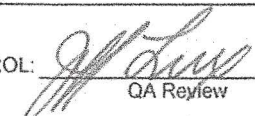
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THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:					HP INITIAL: <b>DK</b>									
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QA Review



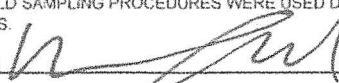
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I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 						U-235/238 (EPA 200.8)									
SITE: CIMARRON FACILITY															
SAMPLE TYPE						SOLID				WATER					
SAMPLE		CONTAINER				SOIL		OTHER		"X" IF WATER		PRESERV.		FILTERED	
ID	DATE	TIME	NO.	TYPE	SIZE										
GE-WAA-02/26.5	1/7/2020	1141	1	P	250 ml					X		HNO3		Y X	
GE-WAA-03/10.3	1/7/2020	1334	1	P	250 ml					X		HNO3		Y X	
GE-WAA-03/12.3	1/7/2020	1345	1	P	250 ml					X		HNO3		Y X	
GE-WAA-03/14.3	1/7/2020	1354	1	P	250 ml					X		HNO3		Y X	
GE-WAA-03/16.3	1/7/2020	1404	1	P	250 ml					X		HNO3		Y X	
GE-WAA-03/18.3	1/7/2020	1414	1	P	250 ml					X		HNO3		Y X	
GE-WAA-06/8.9	1/7/2020	1532	1	P	250 ml					X		HNO3		Y X	
GE-WAA-06/10.9	1/7/2020	1541	1	P	250 ml					X		HNO3		Y X	
GE-WAA-06/10.9DUP	1/7/2020	1541	1	P	250 ml					X		HNO3		Y X	
GE-WAA-06/12.9	1/7/2020	1551	1	P	250 ml					X		HNO3		Y X	
GE-WAA-06/14.9	1/7/2020	1600	1	P	250 ml					X		HNO3		Y X	
GE-WAA-07/8.0	1/8/2020	924	1	P	250 ml					X		HNO3		Y X	
Potential Hazardous Characteristics						Sample Disposal									
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions									
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: DK									
PROJECT NAME: VERTICAL PROFILING 2019						PO#: 160247									
RELINQUISHED BY SAMPLER: 			DATE: _____ TIME: _____			RECEIVED BY: 			DATE: 1/10/20 TIME: 1005			HARD COPY REPORT (PDF), GEL EDD, and EQUIS EDD TO:			
RELINQUISHED BY:			DATE: _____ TIME: _____			RECEIVED BY:			DATE: _____ TIME: _____			(Report Level?) EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:slawrence@burnsmcd.com">slawrence@burnsmcd.com</a>			



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST											COC #: 2020-004						
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152					ANALYSIS REQUESTED						
I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 											U-235/238 (EPA 200.8) Nitrate (EPA 353.2)						
SITE: CIMARRON FACILITY						SAMPLE TYPE											
SAMPLE			CONTAINER			SOLID		WATER									
ID	DATE	TIME	NO.	TYPE	SIZE	SOIL	OTHER	"X" IF WATER	PRESERV.	FILTERED .45µ Y/N							
GE-WAA-07/8.0	1/8/2020	924	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-07/10.0	1/8/2020	937	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-07/10.0	1/8/2020	937	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-07/12.0	1/8/2020	948	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-07/12.0	1/8/2020	948	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-07/14.0	1/8/2020	957	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-07/14.0	1/8/2020	957	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-07/16.0	1/8/2020	1007	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-07/16.0	1/8/2020	1007	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-07/18.0	1/8/2020	1017	1	P	250 ml			X	HNO3	Y	X						
GE-WAA-07/18.0	1/8/2020	1017	1	P	125 ml			X	H2SO4	N	X						
GE-WAA-08/8.7	1/8/2020	1227	1	P	250 ml			X	HNO3	Y	X						
Potential Hazardous Characteristics						Sample Disposal											
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001.283, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown						<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions											
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <i>DK</i>											
PROJECT NAME: VERTICAL PROFILING 2019											PO#: 160247						
RELINQUISHED BY SAMPLER: 			DATE: 1/9/20			TIME: 1600			RECEIVED BY: 			DATE: 1/10/20			TIME: 1005		
RELINQUISHED BY:			DATE:			TIME:			RECEIVED BY:			DATE:			TIME:		
HARD COPY REPORT (.PDF), GEL EDD, and EQUIS EDD TO:																	
(Report Level?) EQUIS											dhorne@burnsmcd.com; jlux@envpm.com; slawrence@burnsmcd.com						

DOCUMENT CONTROL:  QA Review

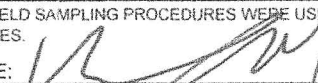

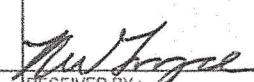
DATE: 1/9/2020



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST											COC #: 2020-005												
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling  Contact Person: Jeff Lux Phone: 405-642-5152					ANALYSIS REQUESTED												
											I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE: 							U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)				
SITE: CIMARRON FACILITY						SAMPLE TYPE			U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)													
SAMPLE			CONTAINER			SOLID		WATER										U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)				
ID	DATE	TIME	NO.	TYPE	SIZE	SOIL	OTHER	"X" IF WATER	PRESERV.	FILTERED .45µ Y/N	U-235/238 (EPA 200.8)	Nitrate (EPA 353.2)											
GE-WAA-08/8.7	1/8/2020	1227	1	P	125 ml			X	H2SO4	N									X				
GE-WAA-08/10.7	1/8/2020	1236	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-08/10.7	1/8/2020	1236	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-08/10.7DUP	1/8/2020	1236	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-08/10.7DUP	1/8/2020	1236	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-08/12.7	1/8/2020	1249	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-08/12.7	1/8/2020	1249	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-08/14.7	1/8/2020	1301	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-08/14.7	1/8/2020	1301	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-08/16.7	1/8/2020	1312	1	P	250 ml			X	HNO3	Y	X												
GE-WAA-08/16.7	1/8/2020	1312	1	P	125 ml			X	H2SO4	N		X											
GE-WAA-08/18.7	1/8/2020	1347	1	P	250 ml			X	HNO3	Y	X												

Potential Hazardous Characteristics					Sample Disposal				
<input checked="" type="checkbox"/> Non-Haz	<input type="checkbox"/> RCRA D001,283, or 4	<input type="checkbox"/> RCRA Listed	<input type="checkbox"/> Radioactive	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Disposal Lab	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Holding pending further instructions		
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:					HP INITIAL: <i>DK</i>				
PROJECT NAME: VERTICAL PROFILING 2019					PO#: 160247				
RELINQUISHED BY SAMPLER: 	DATE: 1/9/20	TIME: 1600	RECEIVED BY: 	DATE: 1/10/20	TIME: 1005	HARD COPY REPORT ( PDF), GEL EDD, and EQUIS EDD TO:			
						(Report Level?) EQUIS	dhorne@burnsmcd.com; jlux@envpm.com; slawrence@burnsmcd.com		
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:				



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST												COC #: 2020-006										
<b>SHIP TO:</b> Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Julie Robinson Phone: 843-769-7393 I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE:  <b>SITE:</b> CIMARRON FACILITY						<b>SHIP FROM:</b> Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 2019 Vertical Profiling Contact Person: Jeff Lux Phone: 405-642-5152						<b>ANALYSIS REQUESTED</b>										
												U-235/238 (EPA 200.8) Nitrate (EPA 353.2)										
<b>SAMPLE TYPE</b>																						
											<b>SOLID</b>		<b>WATER</b>									
						"X" IF		PRESERV.	FILTERED													
						SOIL		WATER	.45µ Y/N													
<b>SAMPLE</b>			<b>CONTAINER</b>																			
ID	DATE	TIME	NO.	TYPE	SIZE																	
GE-WAA-08/18.7	1/8/2020	1347	1	P	125 ml																	
GE-WAA-02/26.5DUP	1/7/2020	1141	1	P	250 ml																	
Potential Hazardous Characteristics												Sample Disposal										
<input checked="" type="checkbox"/> Non-Haz <input type="checkbox"/> RCRA D001,2&3, or 4 <input type="checkbox"/> RCRA Listed <input type="checkbox"/> Radioactive <input type="checkbox"/> Unknown												<input checked="" type="checkbox"/> Disposal Lab <input type="checkbox"/> Return to Client <input type="checkbox"/> Holding pending further instructions										
THIS SAMPLE MEETS ALL APPROPRIATE RADIOLOGICAL REQUIREMENTS:						HP INITIAL: <b>DK</b>																
<b>PROJECT NAME: VERTICAL PROFILING 2019</b>												<b>PO#: 160247</b>										
RELINQUISHED BY SAMPLER:			DATE:			TIME:			RECEIVED BY :			DATE:			TIME:			HARD COPY REPORT (.PDF), GEL EDD, and EQUIS EDD TO:				
			1/9/20			1600						1/10/20			1005			(Report Level?) EQUIS <a href="mailto:dhorne@burnsmcd.com">dhorne@burnsmcd.com</a> ; <a href="mailto:jlux@envpm.com">jlux@envpm.com</a> ; <a href="mailto:slawrence@burnsmcd.com">slawrence@burnsmcd.com</a>				
RELINQUISHED BY :			DATE:			TIME:			RECEIVED BY :			DATE:			TIME:							

SAMPLE RECEIPT & REVIEW FORM

500 939

Client: <b>CMRN</b>		SDG/AR/COC/Work Order:			
Received By: <b>NRG</b>		Date Received: <b>1/10/20</b>			
Carrier and Tracking Number		Circle Applicable: <input checked="" type="radio"/> FedEx Express <input type="radio"/> FedEx Ground <input type="radio"/> UPS <input type="radio"/> Field Services <input type="radio"/> Courier <input type="radio"/> Other <b>7774 3935 7204-2°C (gchem)</b> <b>7774 3935 6572-20°C</b>			
Suspected Hazard Information		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.			
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/> Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___			
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.			
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/> Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> <input checked="" type="radio"/> CPM mR/Hr Classified as: Rad 1    Rad 2    Rad 3			
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.			
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/> If D or E is yes, select Hazards below. <input checked="" type="checkbox"/> PCB's <input type="checkbox"/> Flammable <input type="checkbox"/> Foreign Soil <input type="checkbox"/> RCRA <input type="checkbox"/> Asbestos <input type="checkbox"/> Beryllium <input type="checkbox"/> Other:			
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    Seals broken    Damaged container    Leaking container    Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    Client contacted and provided COC    COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <input checked="" type="radio"/> Wet Ice <input type="radio"/> Ice Packs <input type="radio"/> Dry ice <input checked="" type="radio"/> None    Other: _____ *all temperatures are recorded in Celsius <b>TEMP: See above</b>
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <b>IR3-18</b> Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    Seals broken    Damaged container    Leaking container    Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
					Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
					Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    No dates on containers    No times on containers    COC missing info    Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    No container count on COC    Other (describe)
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable:    Not relinquished    Other (describe)
Comments (Use Continuation Form if needed):					

PM (or PMA) review: Initials SH Date 1/13/20 Page 1 of 1

# Laboratory Certification



**List of current GEL Certifications as of 11 February 2020**

<b>State</b>	<b>Certification</b>
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-19-15
Utah NELAP	SC000122019-30
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# Metals Analysis

# Case Narrative

**Metals**  
**Technical Case Narrative**  
**Burns & McDonnell**  
**SDG #: 500839**

**Product:** Determination of Metals by ICP-MS

**Analytical Method:** EPA 200.8

**Analytical Procedure:** GL-MA-E-014 REV# 33

**Analytical Batches:** 1957686, 1957690, 1957692 and 1957695

**Preparation Method:** EPA 200.2

**Preparation Procedure:** GL-MA-E-016 REV# 18

**Preparation Batches:** 1957685, 1957689, 1957691 and 1957693

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
500839001	GE-BA1-04/9.5
500839002	GE-BA1-04/11.5
500839003	GE-BA1-04/13.5
500839004	GE-BA1-04/15.5
500839005	GE-BA1-04/17.5
500839006	GE-BA1-04/19.5
500839007	GE-BA1-04/21.5
500839008	GE-BA1-04/23.5
500839009	GE-BA1-04/23.5DUP
500839010	GE-BA1-03/12.45
500839011	GE-BA1-03/13.4
500839012	GE-BA1-03/13.4DUP
500839013	GE-BA1-03/15.4
500839014	GE-BA1-03/17.4
500839015	GE-BA1-03/25.0
500839016	GE-BA1-02/9.8
500839017	GE-BA1-02/11.8
500839018	GE-BA1-02/13.8
500839019	GE-BA1-02/15.8
500839020	GE-BA1-02/17.8
500839021	GE-BA1-02/17.8DUP
500839022	GE-BA1-02/19.35
500839023	GE-WAA-04/8.0
500839024	GE-WAA-04/10.0
500839025	GE-WAA-04/10.0DUP
500839026	GE-WAA-04/12.0
500839027	GE-WAA-04/16.0
500839028	GE-WAA-04/18.0
500839029	GE-WAA-04/20.0
500839030	GE-WAA-04/22.0
500839031	GE-WAA-04/25.75
500839032	GE-WAA-01/8.7
500839033	GE-WAA-01/10.7

500839034	GE-WAA-01/12.7
500839035	GE-WAA-01/12.7DUP
500839036	GE-WAA-01/14.7
500839037	GE-WAA-01/16.7
500839038	GE-WAA-01/18.7
500839039	GE-WAA-01/26.6
500839040	GE-WAA-02/8.5
500839041	GE-WAA-02/10.5
500839042	GE-WAA-02/12.5
500839043	GE-WAA-02/14.5
500839044	GE-WAA-02/16.5
500839045	GE-WAA-02/18.5
500839046	GE-WAA-02/20.5
500839047	GE-WAA-02/26.5
500839048	GE-WAA-03/10.3
500839049	GE-WAA-03/12.3
500839050	GE-WAA-03/14.3
500839051	GE-WAA-03/16.3
500839052	GE-WAA-03/18.3
500839053	GE-WAA-06/8.9
500839054	GE-WAA-06/10.9
500839055	GE-WAA-06/10.9DUP
500839056	GE-WAA-06/12.9
500839057	GE-WAA-06/14.9
500839058	GE-WAA-07/8.0
500839059	GE-WAA-07/10.0
500839060	GE-WAA-07/12.0
500839061	GE-WAA-07/14.0
500839062	GE-WAA-07/16.0
500839063	GE-WAA-07/18.0
500839064	GE-WAA-08/8.7
500839065	GE-WAA-02/26.5DUP
500839066	GE-WAA-08/10.7
500839067	GE-WAA-08/10.7DUP
500839068	GE-WAA-08/12.7
500839069	GE-WAA-08/14.7
500839070	GE-WAA-08/16.7
500839071	GE-WAA-08/18.7
1204472103	Method Blank (MB) <b>ICP-MS</b>
1204472111	Method Blank (MB) <b>ICP-MS</b>
1204472119	Method Blank (MB) <b>ICP-MS</b>
1204472127	Method Blank (MB) <b>ICP-MS</b>
1204472104	Laboratory Control Sample (LCS)
1204472112	Laboratory Control Sample (LCS)
1204472120	Laboratory Control Sample (LCS)
1204472128	Laboratory Control Sample (LCS)
1204472109	500839001(GE-BA1-04/9.5L) Serial Dilution (SD)
1204472110	500839002(GE-BA1-04/11.5L) Serial Dilution (SD)
1204472117	500839020(GE-BA1-02/17.8L) Serial Dilution (SD)
1204472118	500839021(GE-BA1-02/17.8DUPL) Serial Dilution (SD)
1204472125	500839039(GE-WAA-01/26.6L) Serial Dilution (SD)
1204472126	500839040(GE-WAA-02/8.5L) Serial Dilution (SD)



1204472133	500839058(GE-WAA-07/8.0L) Serial Dilution (SD)
1204472134	500839059(GE-WAA-07/10.0L) Serial Dilution (SD)
1204472105	500839001(GE-BA1-04/9.5D) Sample Duplicate (DUP)
1204472106	500839002(GE-BA1-04/11.5D) Sample Duplicate (DUP)
1204472113	500839020(GE-BA1-02/17.8D) Sample Duplicate (DUP)
1204472114	500839021(GE-BA1-02/17.8DUPD) Sample Duplicate (DUP)
1204472121	500839039(GE-WAA-01/26.6D) Sample Duplicate (DUP)
1204472122	500839040(GE-WAA-02/8.5D) Sample Duplicate (DUP)
1204472129	500839058(GE-WAA-07/8.0D) Sample Duplicate (DUP)
1204472130	500839059(GE-WAA-07/10.0D) Sample Duplicate (DUP)
1204472107	500839001(GE-BA1-04/9.5S) Matrix Spike (MS)
1204472108	500839002(GE-BA1-04/11.5S) Matrix Spike (MS)
1204472115	500839020(GE-BA1-02/17.8S) Matrix Spike (MS)
1204472116	500839021(GE-BA1-02/17.8DUPS) Matrix Spike (MS)
1204472123	500839039(GE-WAA-01/26.6S) Matrix Spike (MS)
1204472124	500839040(GE-WAA-02/8.5S) Matrix Spike (MS)
1204472131	500839058(GE-WAA-07/8.0S) Matrix Spike (MS)
1204472132	500839059(GE-WAA-07/10.0S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Calibration Information**

**ICSA/ICSAB Statement**

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

**Technical Information**

**Sample Dilutions**

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 500839003 (GE-BA1-04/13.5), 500839004 (GE-BA1-04/15.5), 500839005 (GE-BA1-04/17.5), 500839006 (GE-BA1-04/19.5), 500839007 (GE-BA1-04/21.5), 500839008 (GE-BA1-04/23.5), 500839009 (GE-BA1-04/23.5DUP), 500839011 (GE-BA1-03/13.4), 500839012 (GE-BA1-03/13.4DUP), 500839013 (GE-BA1-03/15.4), 500839014 (GE-BA1-03/17.4), 500839016 (GE-BA1-02/9.8), 500839017 (GE-BA1-02/11.8), 500839018 (GE-BA1-02/13.8), 500839019 (GE-BA1-02/15.8), 500839020 (GE-BA1-02/17.8), 500839021 (GE-BA1-02/17.8DUP), 500839022 (GE-BA1-02/19.35), 500839024 (GE-WAA-04/10.0), 500839025 (GE-WAA-04/10.0DUP), 500839026 (GE-WAA-04/12.0), 500839027 (GE-WAA-04/16.0), 500839030 (GE-WAA-04/22.0), 500839033 (GE-WAA-01/10.7), 500839034 (GE-WAA-01/12.7), 500839035 (GE-WAA-01/12.7DUP), 500839036 (GE-WAA-01/14.7), 500839037 (GE-WAA-01/16.7), 500839038 (GE-WAA-01/18.7), 500839039 (GE-WAA-01/26.6), 500839040 (GE-WAA-02/8.5), 500839041 (GE-WAA-02/10.5), 500839042 (GE-WAA-02/12.5), 500839043 (GE-WAA-02/14.5), 500839044 (GE-WAA-02/16.5), 500839045 (GE-WAA-02/18.5), 500839046 (GE-WAA-02/20.5), 500839047 (GE-WAA-02/26.5), 500839048 (GE-WAA-03/10.3), 500839049 (GE-WAA-03/12.3), 500839050 (GE-WAA-03/14.3), 500839051 (GE-WAA-03/16.3), 500839052 (GE-WAA-03/18.3), 500839053 (GE-WAA-06/8.9), 500839058 (GE-WAA-07/8.0) and 500839065

(GE-WAA-02/26.5DUP)-ICP-MS were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	500839									
	003	004	005	006	007	008	009	011	012	013
Uranium-235	10X	10X	10X	10X	10X	10X	10X	10X	10X	10X
Uranium-238	1X	10X	10X	10X	10X	10X	10X	10X	10X	10X

Analyte	500839									
	014	016	017	018	019	020	021	022	024	025
Uranium-235	10X	100X	10X	10X	10X	10X	10X	10X	10X	10X
Uranium-238	10X	100X	10X	10X	10X	10X	10X	10X	1X	1X

Analyte	500839									
	026	027	030	033	034	035	036	037	038	039
Uranium-235	10X	10X	10X	10X	10X	10X	10X	10X	10X	10X
Uranium-238	10X	1X	10X	1X	10X	10X	10X	10X	10X	10X

Analyte	500839									
	040	041	042	043	044	045	046	047	048	049
Uranium-235	10X	10X	10X	10X	10X	10X	10X	10X	10X	10X
Uranium-238	10X	10X	10X	10X	1X	1X	1X	1X	10X	10X

Analyte	500839					
	050	051	052	053	058	065
Uranium-235	10X	10X	10X	10X	5X	5X
Uranium-238	10X	10X	10X	1X	1X	1X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 500839 GEL Work Order: 500839

### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

### Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: **Jamie Johnson**

Date: **07 FEB 2020**

Title: **Group Leader**

# Sample Data Summary

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Report Date: February 7, 2020

Client Sample ID: GE-BA1-04/9.5      Project: CMRN00919  
 Sample ID: 500839001      Client ID: CMRN001  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0667	+/-0.00472	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1318	1957686	1
Uranium-238		6.94	+/-0.348	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/11.5  
 Sample ID: 500839002  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.0858	+/-0.00543	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1325	1957686	1
Uranium-238		7.90	+/-0.395	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

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 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	



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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/13.5  
Sample ID: 500839003  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-238		90.9	+/-4.54	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1334	1957686	1
Uranium-235		1.71	+/-0.0916	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1451	1957686	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
Lc/LC: Critical Level  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Mtd.: Method  
PF: Prep Factor  
RL: Reporting Limit  
TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/15.5  
Sample ID: 500839004  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.21	+/-0.115	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1453	1957686	1
Uranium-238		178	+/-8.88	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/17.5  
Sample ID: 500839005  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.44	+/-0.175	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1454	1957686	1
Uranium-238		277	+/-13.9	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/19.5  
 Sample ID: 500839006  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		4.74	+/-0.239	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1456	1957686	1
Uranium-238		381	+/-19.1	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/21.5  
Sample ID: 500839007  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		6.45	+/-0.324	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1457	1957686	1
Uranium-238		516	+/-25.8	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/23.5  
 Sample ID: 500839008  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		5.63	+/-0.283	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1459	1957686	1
Uranium-238		444	+/-22.2	0.670		2.00	ug/L	1.00	10					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-04/23.5DUP  
Sample ID: 500839009  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		5.70	+/-0.287	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1500	1957686	1
Uranium-238		455	+/-22.7	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/12.45  
Sample ID: 500839010  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.598	+/-0.0301	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1345	1957686	1
Uranium-238		48.1	+/-2.41	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/13.4  
Sample ID: 500839011  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.27	+/-0.118	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1502	1957686	1
Uranium-238		181	+/-9.05	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/13.4DUP  
Sample ID: 500839012  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.22	+/-0.116	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1507	1957686	1
Uranium-238		177	+/-8.87	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/15.4  
 Sample ID: 500839013  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		4.33	+/-0.219	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1508	1957686	1
Uranium-238		344	+/-17.2	0.670		2.00	ug/L	1.00	10					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/17.4  
 Sample ID: 500839014  
 Matrix: Water  
 Collect Date: 23-DEC-19  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		3.56	+/-0.181	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1510	1957686	1
Uranium-238		287	+/-14.4	0.670		2.00	ug/L	1.00	10					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-03/25.0

Project: CMRN00919

Sample ID: 500839015

Client ID: CMRN001

Matrix: Water

Collect Date: 23-DEC-19

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0505	+/-0.00418	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1356	1957686	1
Uranium-238		7.21	+/-0.361	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/9.8  
Sample ID: 500839016  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		27.8	+/-1.43	1.00		7.00	ug/L	1.00	100	BAJ	02/06/20	1523	1957686	1
Uranium-238		2200	+/-110	6.70		20.0	ug/L	1.00	100					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/11.8  
Sample ID: 500839017  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		4.62	+/-0.233	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1513	1957686	1
Uranium-238		370	+/-18.5	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/13.8

Project: CMRN00919

Sample ID: 500839018

Client ID: CMRN001

Matrix: Water

Collect Date: 23-DEC-19

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.93	+/-0.199	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1515	1957686	1
Uranium-238		322	+/-16.1	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/15.8

Project: CMRN00919

Sample ID: 500839019

Client ID: CMRN001

Matrix: Water

Collect Date: 23-DEC-19

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.52	+/-0.130	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1516	1957686	1
Uranium-238		209	+/-10.5	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957685

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/17.8  
Sample ID: 500839020  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.45	+/-0.127	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1654	1957690	1
Uranium-238		205	+/-10.2	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/17.8DUP  
Sample ID: 500839021  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.27	+/-0.118	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1700	1957690	1
Uranium-238		191	+/-9.56	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-BA1-02/19.35  
Sample ID: 500839022  
Matrix: Water  
Collect Date: 23-DEC-19  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.77	+/-0.142	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1710	1957690	1
Uranium-238		233	+/-11.6	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
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 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/8.0  
 Sample ID: 500839023  
 Matrix: Water  
 Collect Date: 06-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.239	+/-0.0124	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1603	1957690	1
Uranium-238		14.7	+/-0.736	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/10.0

Sample ID: 500839024

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		75.7	+/-3.78	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1604	1957690	1
Uranium-235		1.47	+/-0.0808	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1711	1957690	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/10.0DUP  
Sample ID: 500839025  
Matrix: Water  
Collect Date: 06-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		77.0	+/-3.85	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1606	1957690	1
Uranium-235		1.49	+/-0.0817	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1741	1957690	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/12.0  
Sample ID: 500839026  
Matrix: Water  
Collect Date: 06-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.52	+/-0.130	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1714	1957690	1
Uranium-238		144	+/-7.19	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/16.0

Sample ID: 500839027

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		69.5	+/-3.48	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1609	1957690	1
Uranium-235		2.01	+/-0.106	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1716	1957690	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/18.0

Project: CMRN00919

Sample ID: 500839028

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.670	+/-0.0337	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1611	1957690	1
Uranium-238		31.6	+/-1.58	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/20.0

Sample ID: 500839029

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.379	+/-0.0192	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1612	1957690	1
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Uranium-238		29.1	+/-1.46	0.0670		0.200	ug/L	1.00	1					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Address : Management, LLC  
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 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/22.0

Project: CMRN00919

Sample ID: 500839030

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.06	+/-0.108	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1721	1957690	1
Uranium-238		292	+/-14.6	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-04/25.75  
Sample ID: 500839031  
Matrix: Water  
Collect Date: 06-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	U	ND	+/-0.00336	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1619	1957690	1
Uranium-238		1.19	+/-0.0636	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/8.7  
 Sample ID: 500839032  
 Matrix: Water  
 Collect Date: 06-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		0.406	+/-0.0206	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1620	1957690	1
Uranium-238		18.3	+/-0.915	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/10.7

Project: CMRN00919

Sample ID: 500839033

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-238		92.8	+/-4.64	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1622	1957690	1
Uranium-235		1.82	+/-0.0970	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1722	1957690	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/12.7

Project: CMRN00919

Sample ID: 500839034

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.18	+/-0.163	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1724	1957690	1
Uranium-238		168	+/-8.42	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/12.7DUP  
 Sample ID: 500839035  
 Matrix: Water  
 Collect Date: 06-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		3.07	+/-0.157	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1725	1957690	1
Uranium-238		163	+/-8.17	0.670		2.00	ug/L	1.00	10					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/14.7

Project: CMRN00919

Sample ID: 500839036

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.00	+/-0.154	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1727	1957690	1
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Uranium-238		165	+/-8.26	0.670		2.00	ug/L	1.00	10					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/16.7

Project: CMRN00919

Sample ID: 500839037

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.44	+/-0.126	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1729	1957690	1
Uranium-238		153	+/-7.63	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/18.7

Sample ID: 500839038

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.24	+/-0.117	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1730	1957690	1
Uranium-238		145	+/-7.24	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957689

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-01/26.6

Project: CMRN00919

Sample ID: 500839039

Client ID: CMRN001

Matrix: Water

Collect Date: 06-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		1.60	+/-0.0864	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1204	1957692	1
Uranium-238		86.0	+/-4.30	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/8.5  
Sample ID: 500839040  
Matrix: Water  
Collect Date: 07-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.10	+/-0.158	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1211	1957692	1
Uranium-238		150	+/-7.49	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/10.5  
Sample ID: 500839041  
Matrix: Water  
Collect Date: 07-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.53	+/-0.180	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1220	1957692	1
Uranium-238		170	+/-8.51	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/12.5

Project: CMRN00919

Sample ID: 500839042

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.05	+/-0.156	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1222	1957692	1
Uranium-238		154	+/-7.72	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/14.5  
 Sample ID: 500839043  
 Matrix: Water  
 Collect Date: 07-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235		2.92	+/-0.150	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1223	1957692	1
Uranium-238		156	+/-7.78	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/16.5

Project: CMRN00919

Sample ID: 500839044

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-238		55.5	+/-2.78	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1225	1957692	1
Uranium-235		0.989	+/-0.0596	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1226	1957692	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	



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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/18.5  
Sample ID: 500839045  
Matrix: Water  
Collect Date: 07-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		74.3	+/-3.72	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1228	1957692	1
Uranium-235		1.33	+/-0.0744	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1229	1957692	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/20.5  
 Sample ID: 500839046  
 Matrix: Water  
 Collect Date: 07-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-238		77.3	+/-3.86	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1231	1957692	1
Uranium-235		1.32	+/-0.0738	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1233	1957692	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/26.5

Project: CMRN00919

Sample ID: 500839047

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		58.2	+/-2.91	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1237	1957692	1
Uranium-235		0.803	+/-0.0522	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1239	1957692	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-03/10.3

Project: CMRN00919

Sample ID: 500839048

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.96	+/-0.201	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1240	1957692	1
Uranium-238		188	+/-9.40	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-03/12.3

Project: CMRN00919

Sample ID: 500839049

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	-------------	----	-----	----	-------	----	----	---------	------	------	-------	------

### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		3.87	+/-0.196	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1242	1957692	1
Uranium-238		188	+/-9.42	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-03/14.3

Project: CMRN00919

Sample ID: 500839050

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.61	+/-0.135	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1244	1957692	1
Uranium-238		134	+/-6.71	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Company : Environmental Properties  
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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-03/16.3

Project: CMRN00919

Sample ID: 500839051

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.33	+/-0.121	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1245	1957692	1
Uranium-238		131	+/-6.55	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-03/18.3

Project: CMRN00919

Sample ID: 500839052

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		2.13	+/-0.112	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1247	1957692	1
Uranium-238		127	+/-6.38	0.670		2.00	ug/L	1.00	10					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-06/8.9  
Sample ID: 500839053  
Matrix: Water  
Collect Date: 07-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		65.2	+/-3.26	0.0670		0.200	ug/L	1.00	1	BAJ	02/06/20	1251	1957692	1
Uranium-235		1.35	+/-0.0753	0.100		0.700	ug/L	1.00	10	BAJ	02/06/20	1253	1957692	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
The MDC is a sample specific MDC.  
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-06/10.9  
 Sample ID: 500839054  
 Matrix: Water  
 Collect Date: 07-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
<b>Metals Analysis-ICP-MS</b>														
<i>200.8/200.2 U-235, U-238 "As Received"</i>														
Uranium-235	J	0.0410	+/-0.00391	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1255	1957692	1
Uranium-238		4.57	+/-0.230	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-06/10.9DUP

Project: CMRN00919

Sample ID: 500839055

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0424	+/-0.00395	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1256	1957692	1
Uranium-238		4.58	+/-0.230	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-06/12.9  
Sample ID: 500839056  
Matrix: Water  
Collect Date: 07-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0323	+/-0.00370	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1258	1957692	1
Uranium-238		3.96	+/-0.199	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-06/14.9

Project: CMRN00919

Sample ID: 500839057

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0235	+/-0.00353	0.0100		0.0700	ug/L	1.00	1	BAJ	02/06/20	1259	1957692	1
Uranium-238		3.40	+/-0.171	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	RG1	01/15/20	1000	1957691

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
 Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/8.0  
 Sample ID: 500839058  
 Matrix: Water  
 Collect Date: 08-JAN-20  
 Receive Date: 10-JAN-20  
 Collector: Client

Project: CMRN00919  
 Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-238		57.6	+/-2.88	0.0670		0.200	ug/L	1.00	1	BAJ	01/27/20	1918	1957695	1
Uranium-235		1.48	+/-0.0760	0.0500		0.350	ug/L	1.00	5	BAJ	01/28/20	1324	1957695	2

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**  
 The MDC is a sample specific MDC.  
 TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	



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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/10.0

Project: CMRN00919

Sample ID: 500839059

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.504	+/-0.0254	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1925	1957695	1
Uranium-238		20.3	+/-1.01	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/12.0  
Sample ID: 500839060  
Matrix: Water  
Collect Date: 08-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.504	+/-0.0254	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1935	1957695	1
Uranium-238		21.2	+/-1.06	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

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### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



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Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/14.0

Project: CMRN00919

Sample ID: 500839061

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.217	+/-0.0114	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1936	1957695	1
Uranium-238		11.0	+/-0.551	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/16.0

Project: CMRN00919

Sample ID: 500839062

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.198	+/-0.0105	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1938	1957695	1
Uranium-238		10.5	+/-0.526	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

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TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/18.0

Project: CMRN00919

Sample ID: 500839063

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.136	+/-0.00756	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1940	1957695	1
Uranium-238		8.03	+/-0.402	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
------------------	----------	------	----------	-----------	-------------------

### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

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## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/8.7  
Sample ID: 500839064  
Matrix: Water  
Collect Date: 08-JAN-20  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.673	+/-0.0338	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1941	1957695	1
Uranium-238		27.3	+/-1.37	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-02/26.5DUP

Project: CMRN00919

Sample ID: 500839065

Client ID: CMRN001

Matrix: Water

Collect Date: 07-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-238		58.6	+/-2.93	0.0670		0.200	ug/L	1.00	1	BAJ	01/27/20	1943	1957695	1
Uranium-235		0.902	+/-0.0481	0.0500		0.350	ug/L	1.00	5	BAJ	01/28/20	1331	1957695	2

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8
2	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/10.7

Project: CMRN00919

Sample ID: 500839066

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.320	+/-0.0163	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1948	1957695	1
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Uranium-238		14.7	+/-0.738	0.0670		0.200	ug/L	1.00	1					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/10.7DUP

Project: CMRN00919

Sample ID: 500839067

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.319	+/-0.0163	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1950	1957695	1
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Uranium-238		14.9	+/-0.746	0.0670		0.200	ug/L	1.00	1					
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
 Address : Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/12.7

Project: CMRN00919

Sample ID: 500839068

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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**Metals Analysis-ICP-MS**

*200.8/200.2 U-235, U-238 "As Received"*

Uranium-235		0.111	+/-0.00647	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1951	1957695	1
Uranium-238		5.47	+/-0.274	0.0670		0.200	ug/L	1.00	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

**The following Analytical Methods were performed**

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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**Notes:**

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/14.7

Project: CMRN00919

Sample ID: 500839069

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.0999	+/-0.00601	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1953	1957695	1
Uranium-238		5.06	+/-0.254	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/16.7

Sample ID: 500839070

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Project: CMRN00919

Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235		0.156	+/-0.00849	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1955	1957695	1
Uranium-238		7.95	+/-0.398	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Environmental Properties  
Address : Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102

Report Date: February 7, 2020

Contact: Mr. Jeff Lux

Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/18.7

Project: CMRN00919

Sample ID: 500839071

Client ID: CMRN001

Matrix: Water

Collect Date: 08-JAN-20

Receive Date: 10-JAN-20

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
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### Metals Analysis-ICP-MS

200.8/200.2 U-235, U-238 "As Received"

Uranium-235	J	0.0346	+/-0.00376	0.0100		0.0700	ug/L	1.00	1	BAJ	01/27/20	1956	1957695	1
Uranium-238		4.55	+/-0.228	0.0670		0.200	ug/L	1.00	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	SMI	01/16/20	0850	1957693

### The following Analytical Methods were performed

Method	Description
1	EPA 200.8

Surrogate/Tracer	Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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### Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

### Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

Lc/LC: Critical Level

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Mtd.: Method

PF: Prep Factor

RL: Reporting Limit

TPU: Total Propagated Uncertainty

# Quality Control Summary

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: February 7, 2020  
Page 1 of 5

**Client :** Environmental Properties Management, LLC  
615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma

**Contact:** Mr. Jeff Lux

**Workorder:** 500839

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1957686										
QC1204472105	500839001 DUP										
Uranium-235	J	0.0667	J	0.0676	ug/L	1.34	^	(+/-0.0700)	BAJ	02/06/2013	20
	Uncert:	+/-0.00472		+/-0.00475							
Uranium-238		6.94		6.89	ug/L	.655		(0%-20%)			
	Uncert:	+/-0.348		+/-0.345							
QC1204472106	500839002 DUP										
Uranium-235		0.0858		0.0843	ug/L	1.76	^	(+/-0.0700)	BAJ	02/06/2013	26
	Uncert:	+/-0.00543		+/-0.00537							
Uranium-238		7.90		7.87	ug/L	.364		(0%-20%)			
	Uncert:	+/-0.395		+/-0.394							
QC1204472104	LCS										
Uranium-235	0.360			0.348	ug/L			96.8 (85%-115%)	BAJ	02/06/2013	17
	Uncert:			+/-0.0177							
Uranium-238	49.6			48.8	ug/L			98.3 (85%-115%)			
	Uncert:			+/-2.44							
QC1204472103	MB										
Uranium-235			U	ND	ug/L				BAJ	02/06/2013	15
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204472107	500839001 MS										
Uranium-235	0.360	J	0.0667	0.400	ug/L			92.5 (75%-125%)	BAJ	02/06/2013	22
	Uncert:		+/-0.00472	+/-0.0203							
Uranium-238	49.6		6.94	54.3	ug/L			95.3 (75%-125%)			
	Uncert:		+/-0.348	+/-2.71							
QC1204472108	500839002 MS										
Uranium-235	0.360		0.0858	0.419	ug/L			92.6 (75%-125%)	BAJ	02/06/2013	28
	Uncert:		+/-0.00543	+/-0.0212							
Uranium-238	49.6		7.90	54.5	ug/L			93.8 (75%-125%)			
	Uncert:		+/-0.395	+/-2.72							
QC1204472109	500839001 SDILT										
Uranium-235	J	0.0667	J	0.0660	ug/L	1.05		(0%-10%)	BAJ	02/06/2013	23
	Uncert:	+/-0.00472		+/-0.0170							
Uranium-238		6.94		6.87	ug/L	.941		(0%-10%)			
	Uncert:	+/-0.348		+/-0.361							
QC1204472110	500839002 SDILT										
Uranium-235		0.0858	J	0.0850	ug/L	.932		(0%-10%)	BAJ	02/06/2013	29
	Uncert:	+/-0.00543		+/-0.0172							
Uranium-238		7.90		8.03	ug/L	1.71		(0%-10%)			
	Uncert:	+/-0.395		+/-0.417							
Batch	1957690										

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 500839

Page 2 of 5

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1957690										
QC1204472113	500839020 DUP										
Uranium-235		2.45		2.44	ug/L	.327	^	(+/-0.700)	BAJ	02/06/20	16:55
	Uncert:	+/-0.127		+/-0.127							
Uranium-238		205		199	ug/L	2.75		(0%-20%)			
	Uncert:	+/-10.2		+/-9.96							
QC1204472114	500839021 DUP										
Uranium-235		2.27		2.39	ug/L	4.93	^	(+/-0.700)	BAJ	02/06/20	17:02
	Uncert:	+/-0.118		+/-0.124							
Uranium-238		191		198	ug/L	3.38		(0%-20%)			
	Uncert:	+/-9.56		+/-9.89							
QC1204472112	LCS										
Uranium-235	0.360			0.354	ug/L			98.3 (85%-115%)	BAJ	02/06/20	15:44
	Uncert:			+/-0.0180							
Uranium-238	49.6			48.5	ug/L			97.8 (85%-115%)			
	Uncert:			+/-2.43							
QC1204472111	MB										
Uranium-235			U	ND	ug/L				BAJ	02/06/20	15:42
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204472115	500839020 MS										
Uranium-235	0.360	2.45		2.75	ug/L			N/A (75%-125%)	BAJ	02/06/20	16:57
	Uncert:	+/-0.127		+/-0.142							
Uranium-238	49.6	205		250	ug/L			N/A (75%-125%)			
	Uncert:	+/-10.2		+/-12.5							
QC1204472116	500839021 MS										
Uranium-235	0.360	2.27		2.67	ug/L			N/A (75%-125%)	BAJ	02/06/20	17:03
	Uncert:	+/-0.118		+/-0.137							
Uranium-238	49.6	191		248	ug/L			114 (75%-125%)			
	Uncert:	+/-9.56		+/-12.4							
QC1204472117	500839020 SDILT										
Uranium-235		2.45	J	2.37	ug/L	3.3		(0%-10%)	BAJ	02/06/20	16:58
	Uncert:	+/-0.127		+/-0.204							
Uranium-238		205		197	ug/L	3.6		(0%-10%)			
	Uncert:	+/-10.2		+/-9.93							
QC1204472118	500839021 SDILT										
Uranium-235		2.27	J	2.44	ug/L	7.35		(0%-10%)	BAJ	02/06/20	17:05
	Uncert:	+/-0.118		+/-0.207							
Uranium-238		191		204	ug/L	6.63		(0%-10%)			
	Uncert:	+/-9.56		+/-10.3							
Batch	1957692										
QC1204472121	500839039 DUP										
Uranium-235		1.60		1.56	ug/L	2.54	^	(+/-0.700)	BAJ	02/06/20	12:06
	Uncert:	+/-0.0864		+/-0.0846							
Uranium-238		86.0		85.3	ug/L	.734		(0%-20%)			
	Uncert:	+/-4.30		+/-4.27							
QC1204472122	500839040 DUP										



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 500839

Page 3 of 5

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1957692										
Uranium-235		3.10		3.16	ug/L	2.04	^	(+/-0.700)	BAJ	02/06/2012	12:12
	Uncert:	+/-0.158		+/-0.162							
Uranium-238		150		152	ug/L	1.72		(0%-20%)			
	Uncert:	+/-7.49		+/-7.62							
QC1204472120	LCS										
Uranium-235	0.360			0.326	ug/L		90.5	(85%-115%)	BAJ	02/06/2012	12:03
	Uncert:			+/-0.0166							
Uranium-238	49.6			46.8	ug/L		94.3	(85%-115%)			
	Uncert:			+/-2.34							
QC1204472119	MB										
Uranium-235			U	ND	ug/L				BAJ	02/06/2012	12:01
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L						
	Uncert:			+/-0.0223							
QC1204472123	500839039 MS										
Uranium-235	0.360	1.60		1.95	ug/L		N/A	(75%-125%)	BAJ	02/06/2012	12:07
	Uncert:	+/-0.0864		+/-0.103							
Uranium-238	49.6	86.0		134	ug/L		97	(75%-125%)			
	Uncert:	+/-4.30		+/-6.71							
QC1204472124	500839040 MS										
Uranium-235	0.360	3.10		3.46	ug/L		N/A	(75%-125%)	BAJ	02/06/2012	12:14
	Uncert:	+/-0.158		+/-0.176							
Uranium-238	49.6	150		197	ug/L		95.6	(75%-125%)			
	Uncert:	+/-7.49		+/-9.86							
QC1204472125	500839039 SDILT										
Uranium-235		1.60	J	1.61	ug/L	.94		(0%-10%)	BAJ	02/06/2012	12:09
	Uncert:	+/-0.0864		+/-0.185							
Uranium-238		86.0		87.4	ug/L	1.71		(0%-10%)			
	Uncert:	+/-4.30		+/-4.51							
QC1204472126	500839040 SDILT										
Uranium-235		3.10	J	3.05	ug/L	1.58		(0%-10%)	BAJ	02/06/2012	12:15
	Uncert:	+/-0.158		+/-0.226							
Uranium-238		150		146	ug/L	2.14		(0%-10%)			
	Uncert:	+/-7.49		+/-7.41							
Batch	1957695										
QC1204472129	500839058 DUP										
Uranium-235		1.48		1.66	ug/L	11	^	(+/-0.350)	BAJ	01/28/2013	13:26
	Uncert:	+/-0.0760		+/-0.0845							
Uranium-238		57.6		59.8	ug/L	3.84		(0%-20%)		01/27/2019	19:20
	Uncert:	+/-2.88		+/-2.99							
QC1204472130	500839059 DUP										
Uranium-235		0.504		0.500	ug/L	.737		(0%-20%)	BAJ	01/27/2019	19:26
	Uncert:	+/-0.0254		+/-0.0252							
Uranium-238		20.3		20.2	ug/L	.58		(0%-20%)			
	Uncert:	+/-1.01		+/-1.01							
QC1204472128	LCS										

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## QC Summary

Workorder: 500839

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Metals Analysis - ICPMS</b>											
Batch	1957695										
Uranium-235	0.360			0.359	ug/L		99.8	(85%-115%)	BAJ	01/28/2013	23
	Uncert:			+/-0.0183							
Uranium-238	49.6			51.4	ug/L		103	(85%-115%)		01/27/2019	16
	Uncert:			+/-2.57							
QC1204472127	MB										
Uranium-235			U	ND	ug/L				BAJ	01/28/2013	21
	Uncert:			+/-0.00333							
Uranium-238			U	ND	ug/L					01/27/2019	15
	Uncert:			+/-0.0223							
QC1204472131	500839058 MS										
Uranium-235	0.360	1.48		1.99	ug/L		N/A	(75%-125%)	BAJ	01/28/2013	28
	Uncert:	+/-0.0760		+/-0.101							
Uranium-238	49.6	57.6		111	ug/L		108	(75%-125%)		01/27/2019	21
	Uncert:	+/-2.88		+/-5.56							
QC1204472132	500839059 MS										
Uranium-235	0.360	0.504		0.854	ug/L		97.3	(75%-125%)	BAJ	01/27/2019	28
	Uncert:	+/-0.0254		+/-0.0428							
Uranium-238	49.6	20.3		71.2	ug/L		103	(75%-125%)			
	Uncert:	+/-1.01		+/-3.56							
QC1204472133	500839058 SDILT										
Uranium-235		1.48	J	1.59	ug/L	6.81		(0%-10%)	BAJ	01/28/2013	29
	Uncert:	+/-0.0760		+/-0.115							
Uranium-238		57.6		58.3	ug/L	1.32		(0%-10%)		01/27/2019	23
	Uncert:	+/-2.88		+/-2.92							
QC1204472134	500839059 SDILT										
Uranium-235		0.504		0.532	ug/L	5.53		(0%-10%)	BAJ	01/27/2019	30
	Uncert:	+/-0.0254		+/-0.0314							
Uranium-238		20.3		21.5	ug/L	6.23		(0%-10%)			
	Uncert:	+/-1.01		+/-1.08							

**Notes:**

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative



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## QC Summary

Workorder: 500839

Page 5 of 5

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

\*\* Indicates analyte is a surrogate/tracer compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

# General Chem Analysis

# Case Narrative

**General Chemistry  
Technical Case Narrative  
Burns & McDonnell  
SDG #: 500839**

**Product:** Nitrate Nitrite by Cadmium Reduction

**Analytical Method:** EPA 353.2

**Analytical Procedure:** GL-GC-E-128 REV# 10

**Analytical Batch:** 1957766

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
500839058	GE-WAA-07/8.0
500839059	GE-WAA-07/10.0
500839060	GE-WAA-07/12.0
500839061	GE-WAA-07/14.0
500839062	GE-WAA-07/16.0
500839063	GE-WAA-07/18.0
500839064	GE-WAA-08/8.7
500839066	GE-WAA-08/10.7
500839067	GE-WAA-08/10.7DUP
500839068	GE-WAA-08/12.7
500839069	GE-WAA-08/14.7
500839070	GE-WAA-08/16.7
500839071	GE-WAA-08/18.7
1204472354	Method Blank (MB)
1204472355	Laboratory Control Sample (LCS)
1204472357	500839058(GE-WAA-07/8.0) Sample Duplicate (DUP)
1204472362	500839058(GE-WAA-07/8.0) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information**

**Sample Dilutions**

The following samples 1204472357 (GE-WAA-07/8.0DUP), 1204472362 (GE-WAA-07/8.0PS), 500839058 (GE-WAA-07/8.0), 500839059 (GE-WAA-07/10.0), 500839060 (GE-WAA-07/12.0), 500839061 (GE-WAA-07/14.0), 500839062 (GE-WAA-07/16.0), 500839063 (GE-WAA-07/18.0), 500839064 (GE-WAA-08/8.7), 500839066 (GE-WAA-08/10.7), 500839067 (GE-WAA-08/10.7DUP), 500839068 (GE-WAA-08/12.7), 500839069 (GE-WAA-08/14.7), 500839070 (GE-WAA-08/16.7) and 500839071 (GE-WAA-08/18.7) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	500839									
	058	059	060	061	062	063	064	066	067	068
Nitrogen, Nitrate/Nitrite	10X	25X	100X	100X	500X	500X	25X	50X	50X	50X

Analyte	500839		
	069	070	071
Nitrogen, Nitrate/Nitrite	50X	50X	5X

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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### Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 500839 GEL Work Order: 500839

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:** 

**Name:** Edmund Frampton

**Date:** 13 JAN 2020

**Title:** Team Leader

# Sample Data Summary

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/8.0  
Sample ID: 500839058  
Matrix: Water  
Collect Date: 08-JAN-20 09:24  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		8.33	0.170	0.500	mg/L		10	AXH3	01/13/20	0716	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/10.0      Project: CMRN00919  
Sample ID: 500839059      Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 09:37  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		11.7	0.425	1.25	mg/L		25	AXH3	01/13/20	0719	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/12.0      Project: CMRN00919  
Sample ID: 500839060      Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 09:48  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		93.7	1.70	5.00	mg/L		100	AXH3	01/13/20	0721	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/14.0 Project: CMRN00919  
Sample ID: 500839061 Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 09:57  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		121	1.70	5.00	mg/L		100	AXH3	01/13/20	0722	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/16.0 Project: CMRN00919  
Sample ID: 500839062 Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 10:07  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		179	8.50	25.0	mg/L		500	AXH3	01/13/20	0806	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-07/18.0      Project: CMRN00919  
Sample ID: 500839063      Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 10:17  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		287	8.50	25.0	mg/L		500	AXH3	01/13/20	0807	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/8.7  
Sample ID: 500839064  
Matrix: Water  
Collect Date: 08-JAN-20 12:27  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		22.2	0.425	1.25	mg/L		25	AXH3	01/13/20	0725	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/10.7  
Sample ID: 500839066  
Matrix: Water  
Collect Date: 08-JAN-20 12:36  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		27.6	0.850	2.50	mg/L		50	AXH3	01/13/20	0727	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/10.7DUP      Project: CMRN00919  
Sample ID: 500839067      Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 12:36  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		27.5	0.850	2.50	mg/L		50	AXH3	01/13/20	0732	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit



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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/12.7  
Sample ID: 500839068  
Matrix: Water  
Collect Date: 08-JAN-20 12:49  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		36.7	0.850	2.50	mg/L		50	AXH3	01/13/20	0734	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/14.7  
Sample ID: 500839069  
Matrix: Water  
Collect Date: 08-JAN-20 13:01  
Receive Date: 10-JAN-20  
Collector: Client

Project: CMRN00919  
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		36.0	0.850	2.50	mg/L		50	AXH3	01/13/20	0735	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/16.7      Project: CMRN00919  
Sample ID: 500839070      Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 13:12  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		22.4	0.850	2.50	mg/L		50	AXH3	01/13/20	0736	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor      Lc/LC: Critical Level  
DL: Detection Limit      PF: Prep Factor  
MDA: Minimum Detectable Activity      RL: Reporting Limit  
MDC: Minimum Detectable Concentration      SQL: Sample Quantitation Limit

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: January 13, 2020

Company : Environmental Properties Management, LLC  
Address : 615 N. Hudson  
Suite 200  
Oklahoma City, Oklahoma 73102  
Contact: Mr. Jeff Lux  
Project: Vertical Profiling 2019

Client Sample ID: GE-WAA-08/18.7 Project: CMRN00919  
Sample ID: 500839071 Client ID: CMRN001  
Matrix: Water  
Collect Date: 08-JAN-20 13:47  
Receive Date: 10-JAN-20  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.67	0.085	0.250	mg/L		5	AXH3	01/13/20	0737	1957766	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 353.2		

### Notes:

Column headers are defined as follows:

DF: Dilution Factor  
DL: Detection Limit  
MDA: Minimum Detectable Activity  
MDC: Minimum Detectable Concentration  
Lc/LC: Critical Level  
PF: Prep Factor  
RL: Reporting Limit  
SQL: Sample Quantitation Limit

# Quality Control Summary

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: January 13, 2020

Page 1 of 2

Environmental Properties Management, LLC  
 615 N. Hudson  
 Suite 200  
 Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 500839

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Nutrient Analysis</b>											
Batch	1957766										
QC1204472357	500839058	DUP									
Nitrogen, Nitrate/Nitrite		8.33		8.13	mg/L	2.43		(0%-20%)	AXH3	01/13/20	07:17
QC1204472355	LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.03	mg/L		103	(90%-110%)		01/13/20	06:51
QC1204472354	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					01/13/20	06:50
QC1204472362	500839058	PS									
Nitrogen, Nitrate/Nitrite	1.00	0.833		1.82	mg/L		98.7	(90%-110%)		01/13/20	07:18

**Notes:**

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 500839

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Z		Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
d		5-day BOD--The 2:1 depletion requirement was not met for this sample									
e		5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes									
h		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

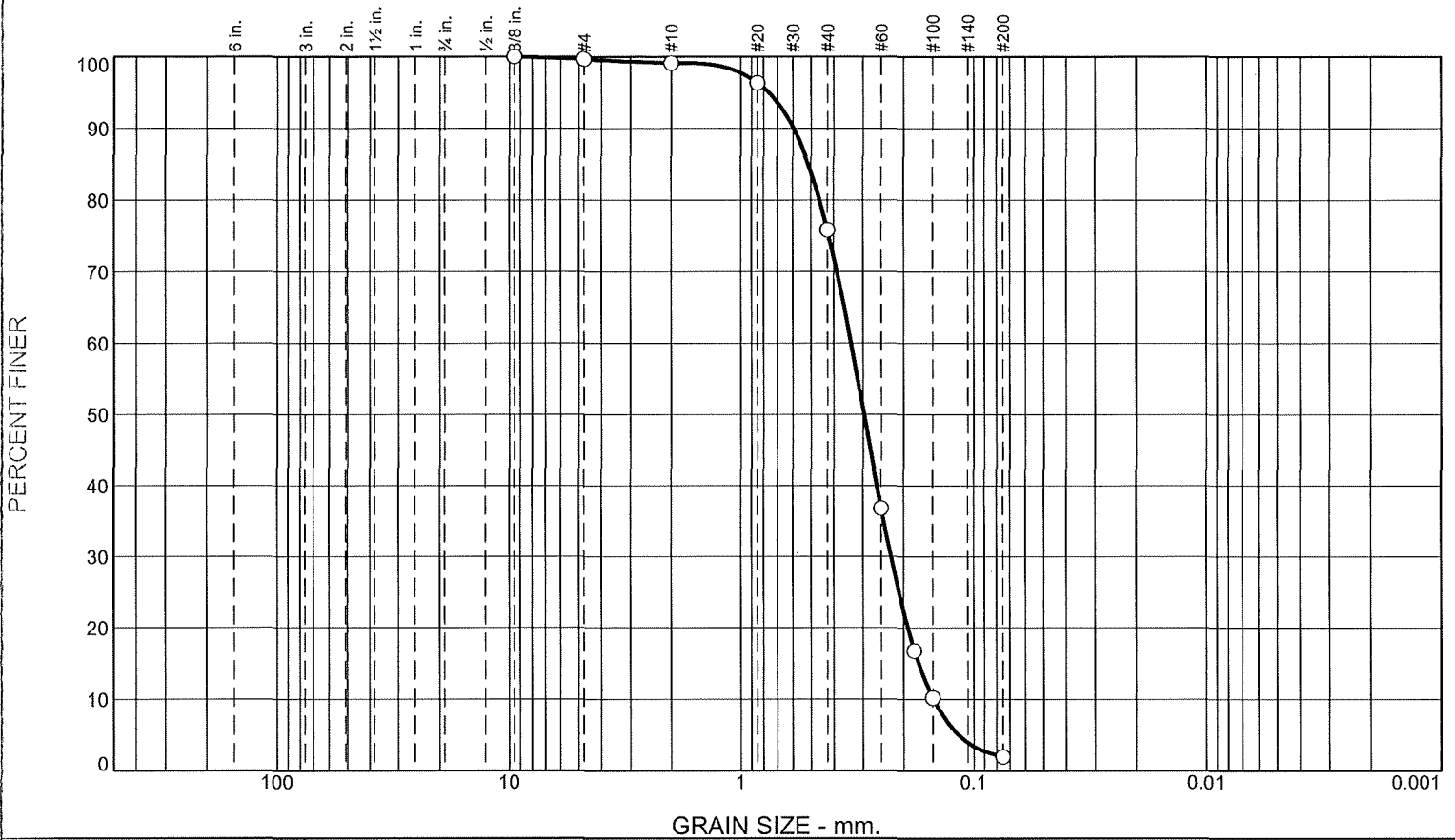
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**APPENDIX G – GEOTECHNICAL LABORATORY REPORT**



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	23	74	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	100		
#10	99		
#20	96		
#40	76		
#60	37		
#80	17		
#100	10		
#200	2.0		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.5955      D<sub>85</sub>= 0.5131      D<sub>60</sub>= 0.3378  
D<sub>50</sub>= 0.2971      D<sub>30</sub>= 0.2271      D<sub>15</sub>= 0.1727  
D<sub>10</sub>= 0.1490      C<sub>u</sub>= 2.27              C<sub>c</sub>= 1.02

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

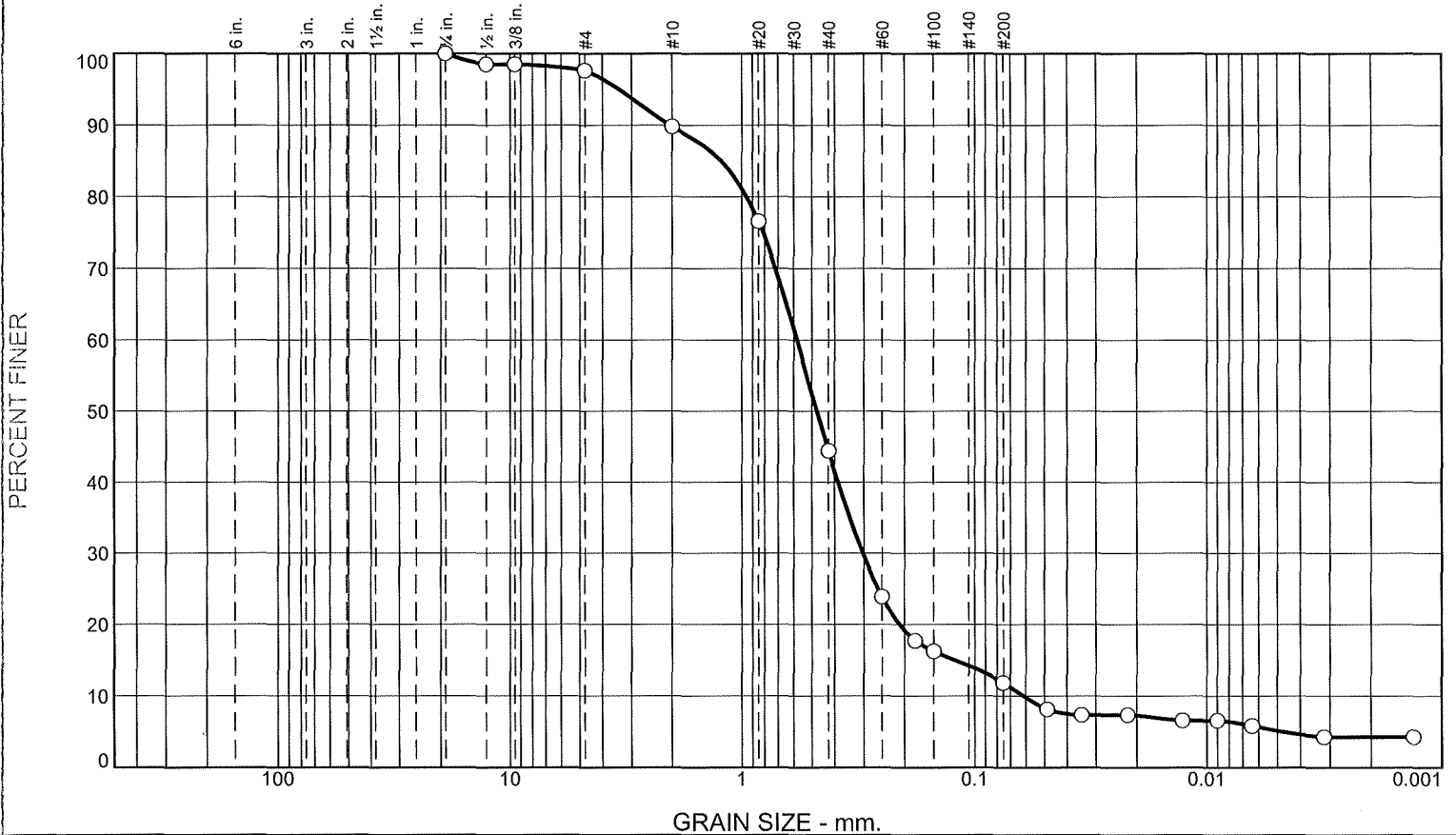
Sample Number: GE-WWA-15      Depth: 5'-8'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	2	8	46	32	7	5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100		
.5	99		
.375	99		
#4	98		
#10	90		
#20	77		
#40	44		
#60	24		
#80	18		
#100	16		
#200	12		

**Material Description**

Brown poorly graded sand with clay

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.0475              D<sub>85</sub>= 1.2267              D<sub>60</sub>= 0.5804  
D<sub>50</sub>= 0.4761              D<sub>30</sub>= 0.3035              D<sub>15</sub>= 0.1218  
D<sub>10</sub>= 0.0615              C<sub>u</sub>= 9.44                      C<sub>c</sub>= 2.58

**Classification**

USCS=                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-WWA-15

Depth: 15'-20'

Date: 1/16/2020



ALPHA-OMEGA GEOTECH

Client: Burns & McDonnell

Project: Vertical Profiling 2019 - Cimarron Facility, PO #160232

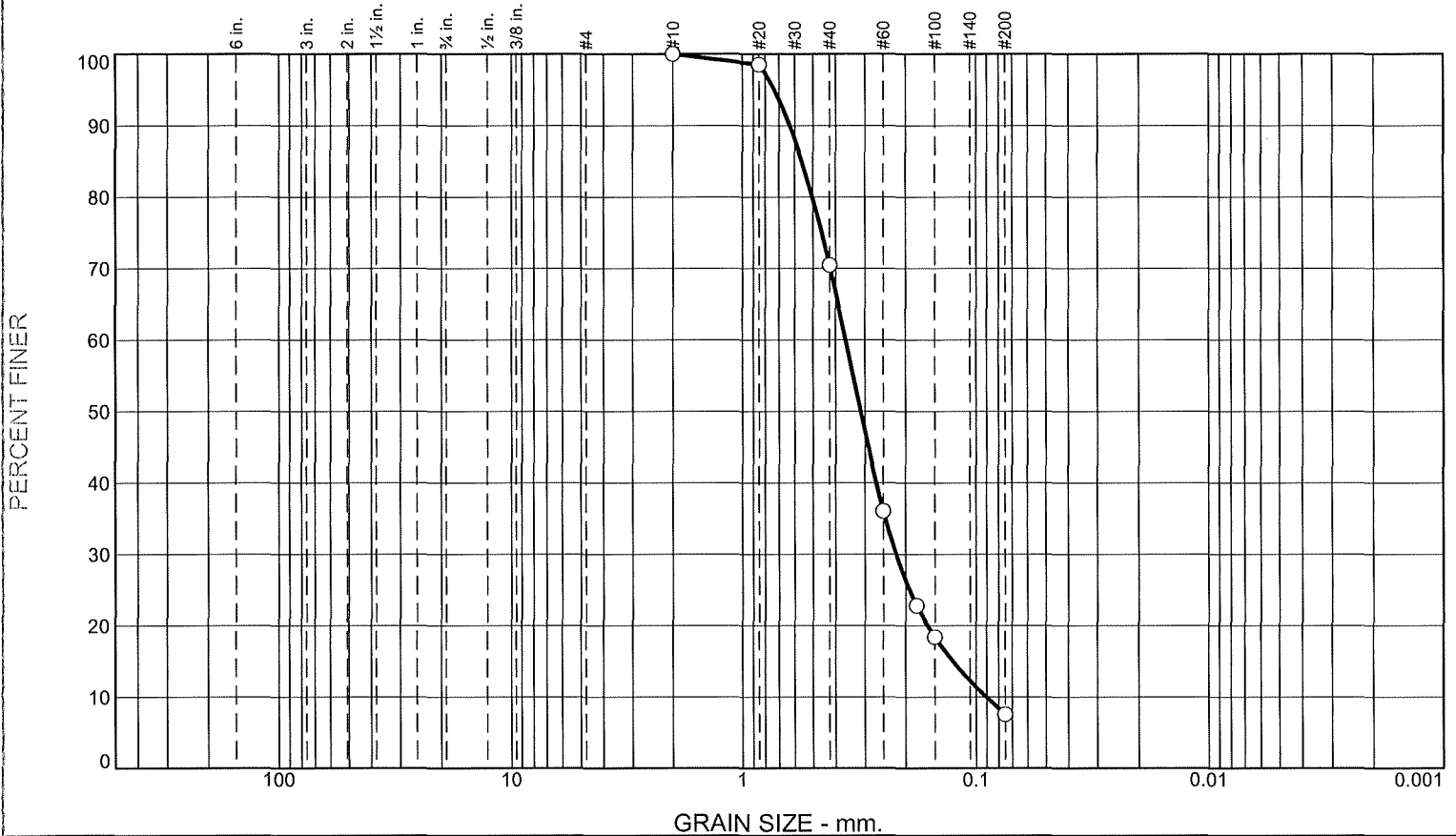
Project No: 20-109T

Figure 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	30	62	8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100		
#20	99		
#40	70		
#60	36		
#80	23		
#100	18		
#200	7.6		

**Material Description**

Brown poorly graded sand with silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.6293      D<sub>85</sub>= 0.5576      D<sub>60</sub>= 0.3626  
D<sub>50</sub>= 0.3133      D<sub>30</sub>= 0.2206      D<sub>15</sub>= 0.1258  
D<sub>10</sub>= 0.0903      C<sub>u</sub>= 4.01              C<sub>c</sub>= 1.49

**Classification**

USCS=                      AASHTO=

**Remarks**

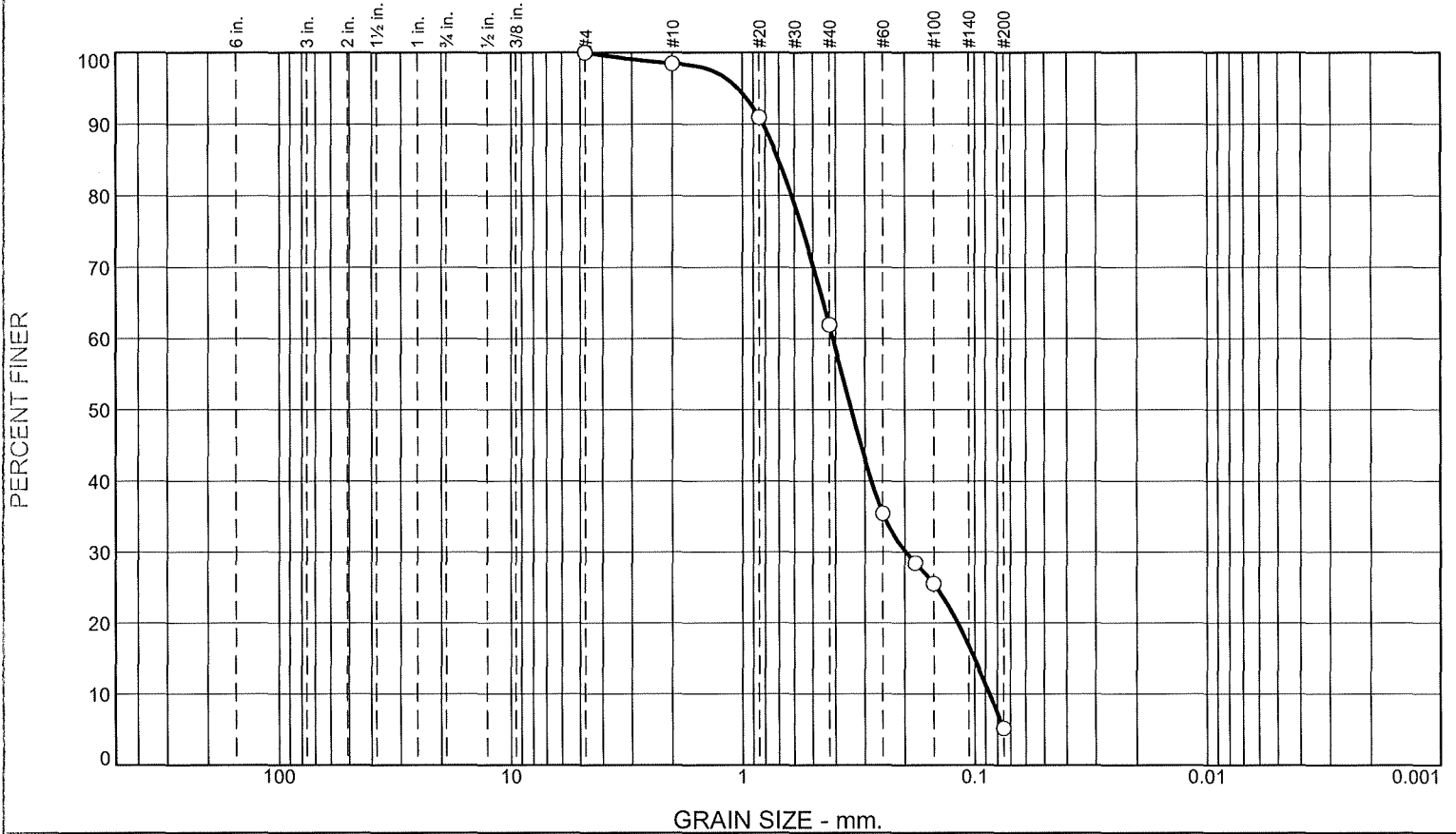
\* (no specification provided)

Sample Number: GE-WWA-15      Depth: 20'-25'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p> <p style="text-align: right;"><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	2	36	57	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	98		
#20	91		
#40	62		
#60	35		
#80	28		
#100	26		
#200	5.2		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.8196      D<sub>85</sub>= 0.7000      D<sub>60</sub>= 0.4106  
D<sub>50</sub>= 0.3432      D<sub>30</sub>= 0.1988      D<sub>15</sub>= 0.1003  
D<sub>10</sub>= 0.0862      C<sub>u</sub>= 4.76              C<sub>c</sub>= 1.12

**Classification**

USCS=                      AASHTO=

**Remarks**

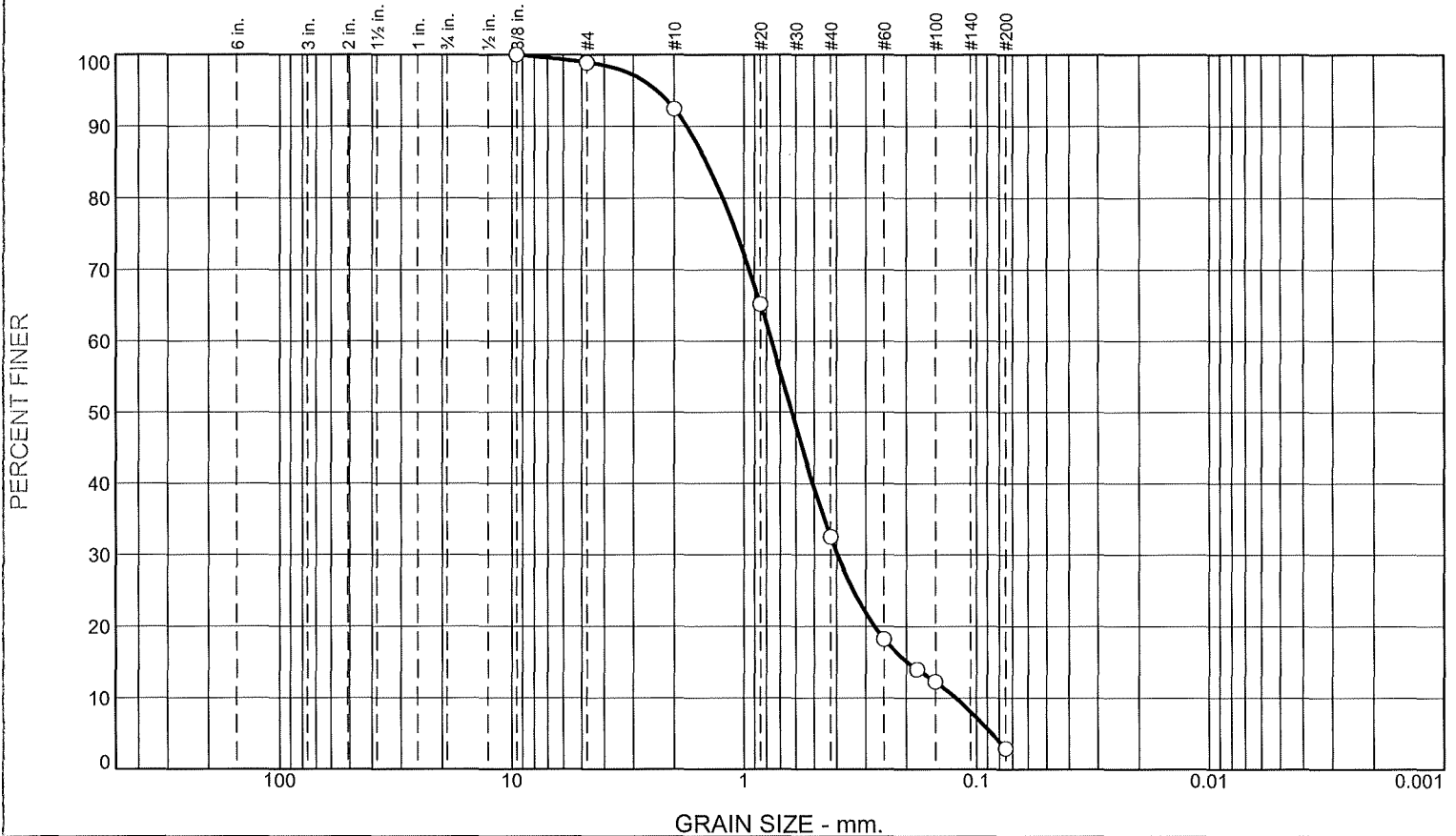
\* (no specification provided)

Sample Number: GE-WWA-05      Depth: 10'-12.5'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p> <p style="text-align: right;"><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	7	60	29	3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	99		
#10	92		
#20	65		
#40	32		
#60	18		
#80	14		
#100	12		
#200	2.9		

**Material Description**

Brown well-graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.7655      D<sub>85</sub>= 1.4481      D<sub>60</sub>= 0.7623  
D<sub>50</sub>= 0.6231      D<sub>30</sub>= 0.3973      D<sub>15</sub>= 0.1985  
D<sub>10</sub>= 0.1227      C<sub>u</sub>= 6.22              C<sub>c</sub>= 1.69

USCS= SW                      AASHTO=

**Remarks**

\* (no specification provided)

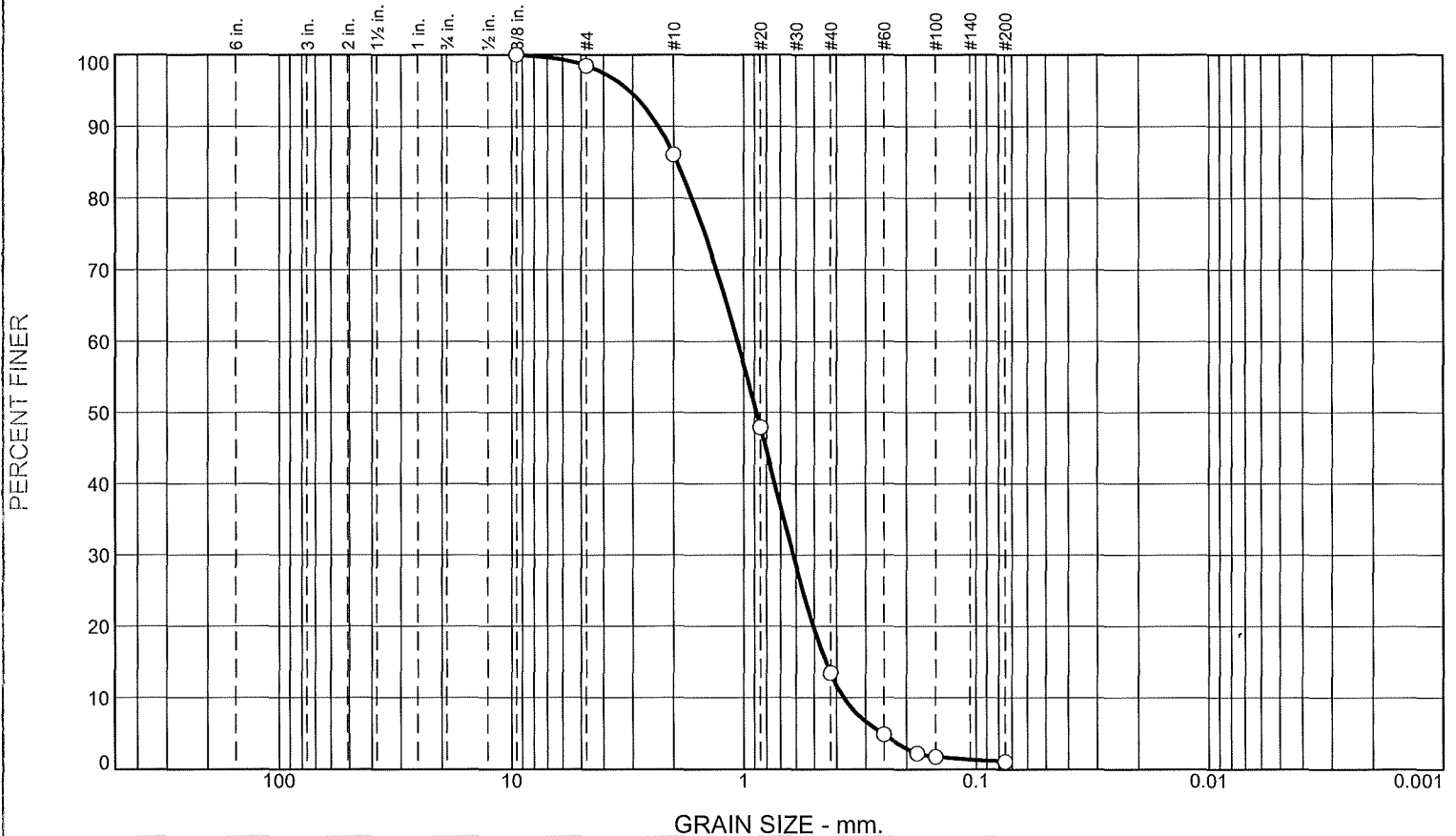
Sample Number: GE-WWA-05      Depth: 15'-18'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	2	12	73	12	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	98		
#10	86		
#20	48		
#40	13		
#60	5		
#80	2		
#100	2		
#200	1.1		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**  
 PL=                      LL=                      PI=

**Coefficients**  
 D<sub>90</sub>= 2.3294      D<sub>85</sub>= 1.9295      D<sub>60</sub>= 1.0643  
 D<sub>50</sub>= 0.8826      D<sub>30</sub>= 0.6179      D<sub>15</sub>= 0.4454  
 D<sub>10</sub>= 0.3721      C<sub>u</sub>= 2.86              C<sub>c</sub>= 0.96

**Classification**  
 USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

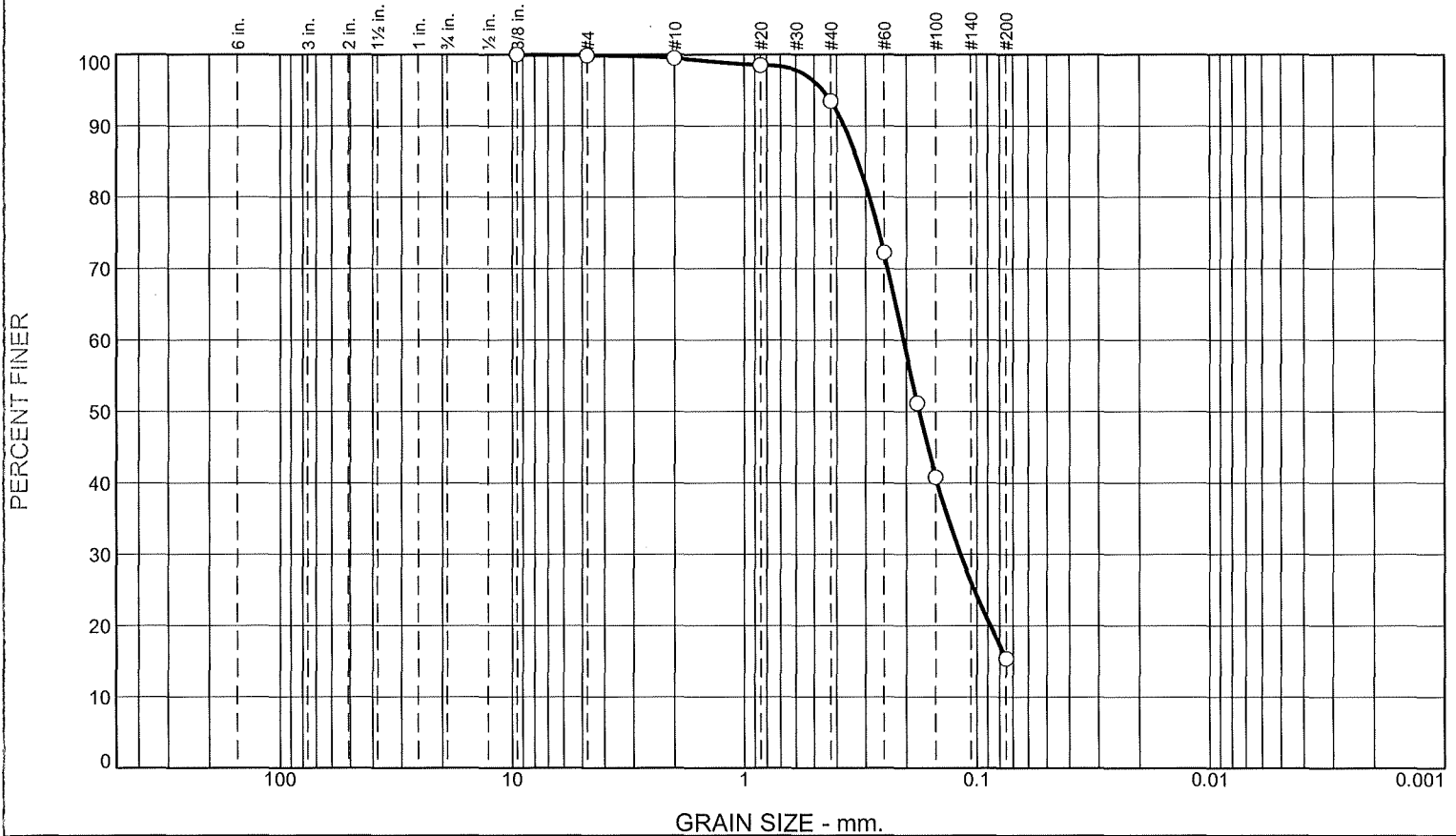
Sample Number: GE-WWA-05      Depth: 25'-29'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p>	<p><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	6	78	15	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	100		
#10	99		
#20	99		
#40	93		
#60	72		
#80	51		
#100	41		
#200	15		

**Material Description**

Brown silty sand

PL=                      **Atterberg Limits**                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.3724                      D<sub>85</sub>= 0.3235                      D<sub>60</sub>= 0.2064

D<sub>50</sub>= 0.1767                      D<sub>30</sub>= 0.1177                      D<sub>15</sub>=

D<sub>10</sub>=                                      C<sub>u</sub>=                                      C<sub>c</sub>=

USCS=                      **Classification**                      AASHTO=

**Remarks**

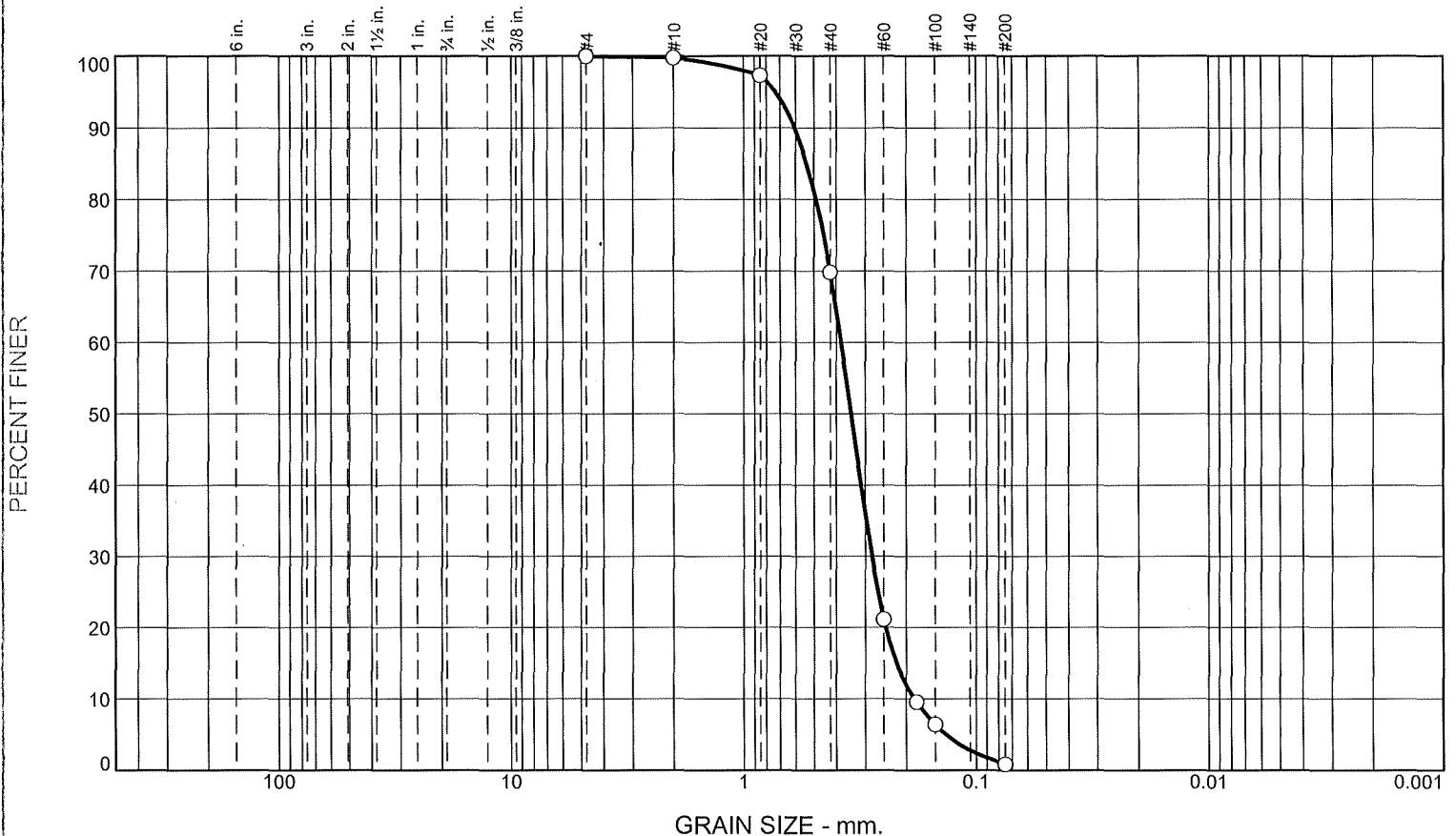
\* (no specification provided)

Sample Number: GE-WWA-09                      Depth: 0'-10'                      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T                      <b>Figure</b> 1 of 1</p>
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Tested By: DB                      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	30	69	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	100		
#20	97		
#40	70		
#60	21		
#80	10		
#100	6		
#200	0.8		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.6055      D<sub>85</sub>= 0.5368      D<sub>60</sub>= 0.3815  
D<sub>50</sub>= 0.3452      D<sub>30</sub>= 0.2809      D<sub>15</sub>= 0.2212  
D<sub>10</sub>= 0.1844      C<sub>u</sub>= 2.07              C<sub>c</sub>= 1.12

USCS= SP                      AASHTO=

**Remarks**

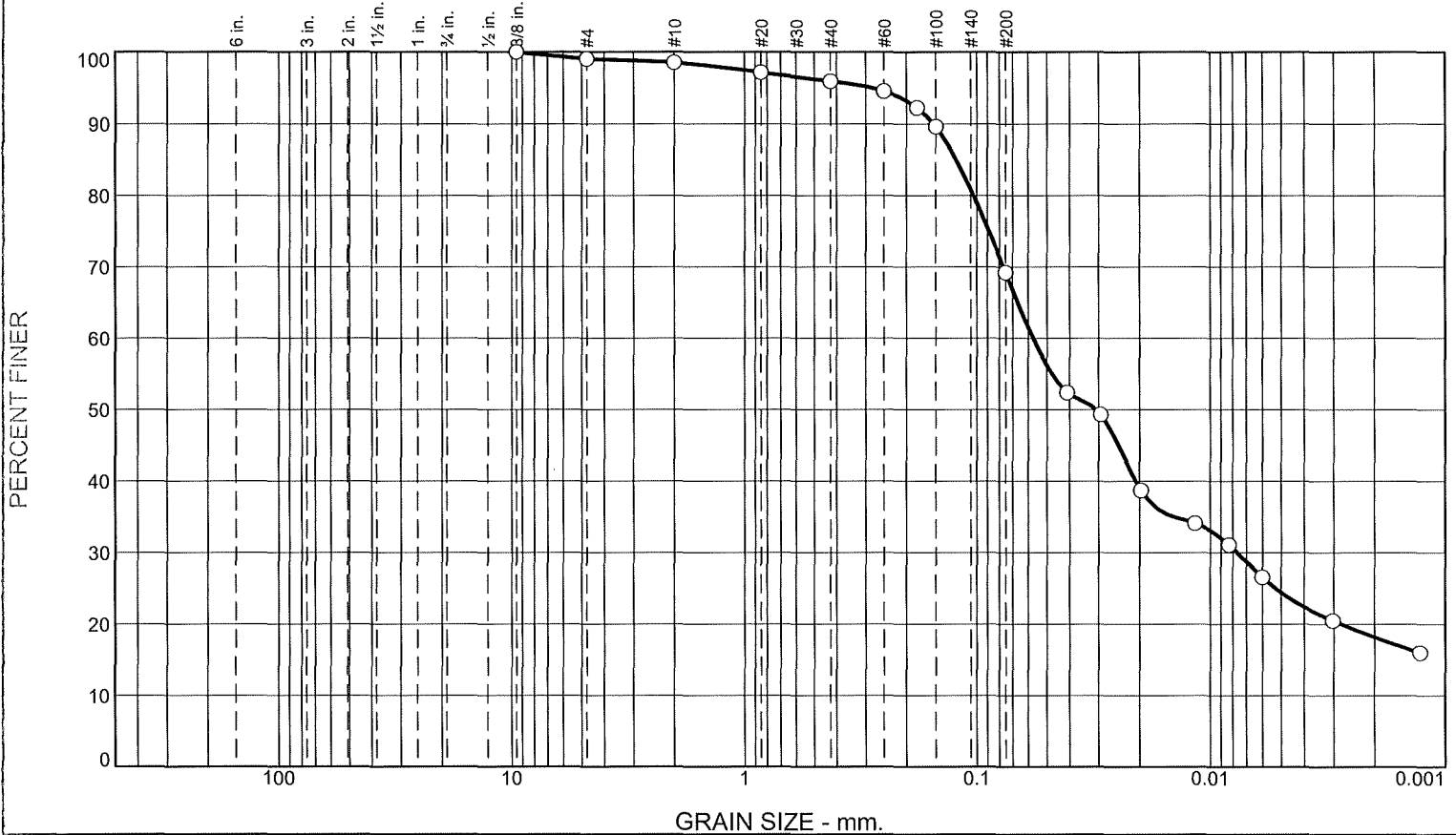
\* (no specification provided)

Sample Number: GE-WWA-09      Depth: 10'-15'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	0	3	27	45	24

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	99		
#10	99		
#20	97		
#40	96		
#60	95		
#80	92		
#100	90		
#200	69		

**Material Description**

Reddish brown Sandy LEAN CLAY

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.1533      D<sub>85</sub>= 0.1223      D<sub>60</sub>= 0.0573

D<sub>50</sub>= 0.0308      D<sub>30</sub>= 0.0077      D<sub>15</sub>=

D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

USCS=                      **Classification**

AASHTO=

**Remarks**

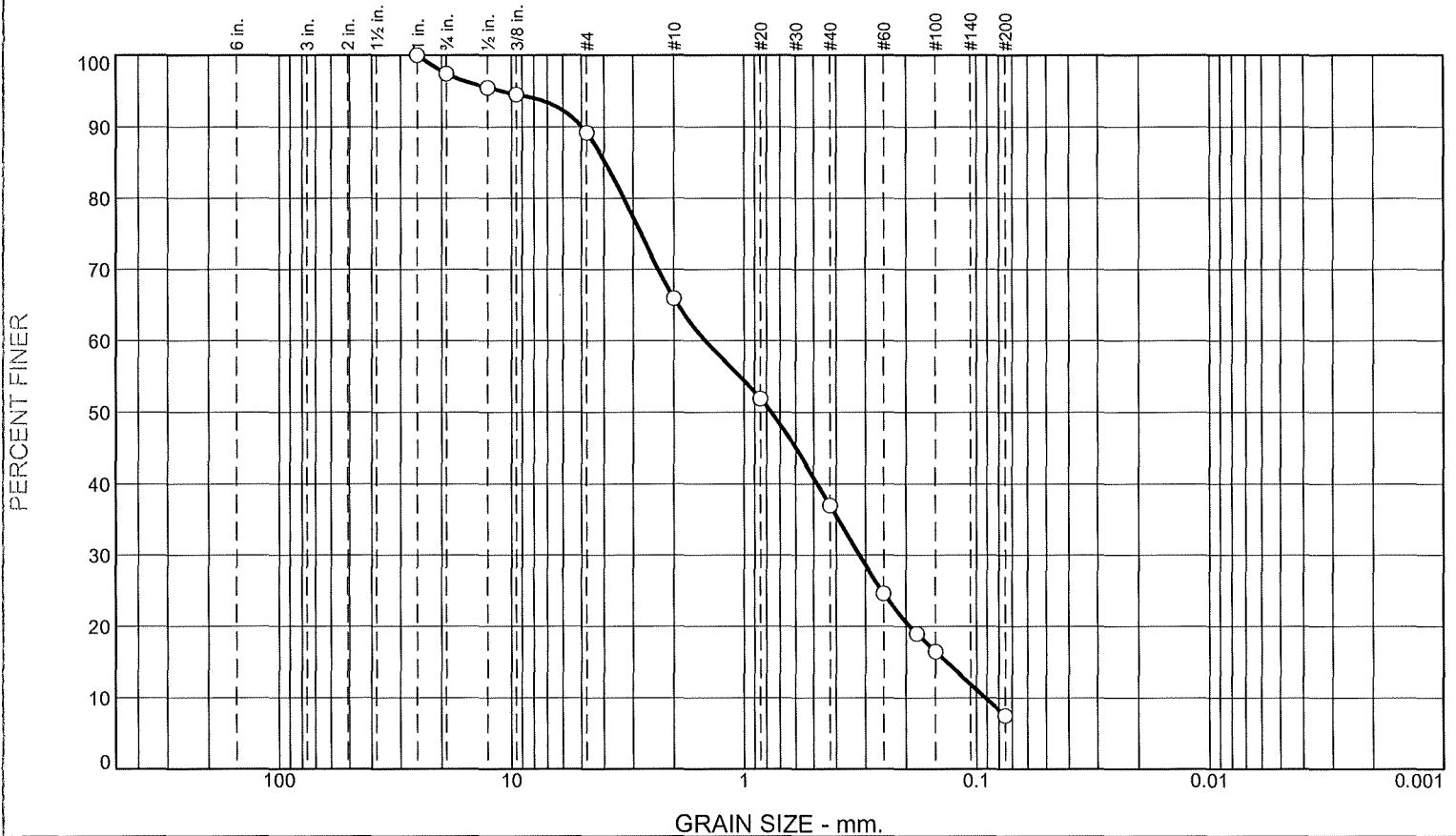
\* (no specification provided)

Sample Number: GE-WWA-09      Depth: 15'-20'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p> <p style="text-align: right;"><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	3	8	23	29	30	7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100		
.75	97		
.5	96		
.375	95		
#4	89		
#10	66		
#20	52		
#40	37		
#60	25		
#80	19		
#100	16		
#200	7.5		

**Material Description**

Brown poorly graded sand with clay

PL=	<b>Atterberg Limits</b>	PI=
	LL=	
	<b>Coefficients</b>	
D <sub>90</sub> = 4.9786	D <sub>85</sub> = 3.9318	D <sub>60</sub> = 1.4731
D <sub>50</sub> = 0.7655	D <sub>30</sub> = 0.3191	D <sub>15</sub> = 0.1342
D <sub>10</sub> = 0.0913	C <sub>u</sub> = 16.14	C <sub>c</sub> = 0.76
USCS=	<b>Classification</b>	AASHTO=
	<b>Remarks</b>	

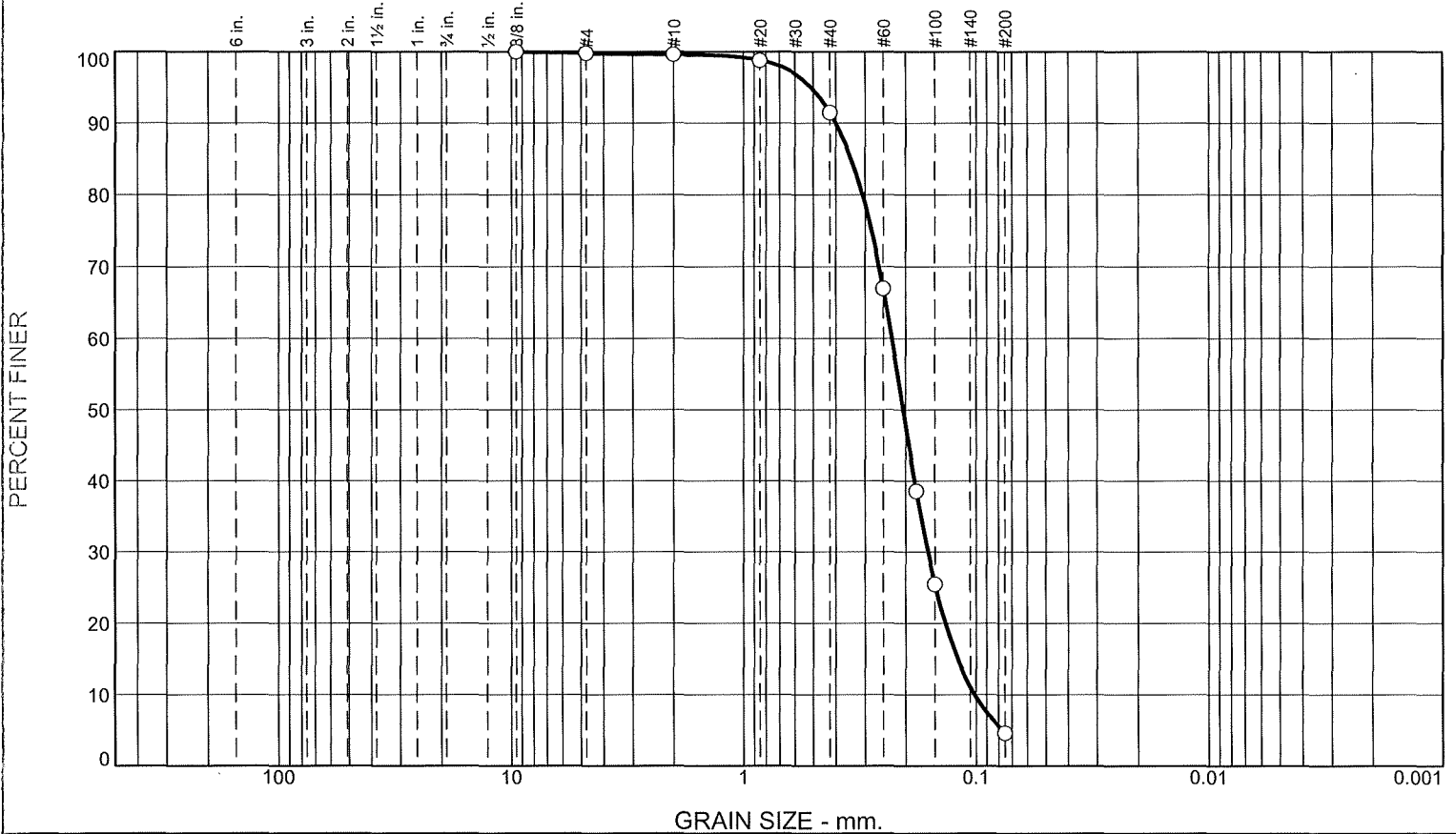
\* (no specification provided)

Sample Number: GE-WWA-15      Depth: 25'-29'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p>	<p><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	9	86	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=N0)
.375	100		
#4	100		
#10	100		
#20	99		
#40	91		
#60	67		
#80	39		
#100	25		
#200	4.6		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.4012      D<sub>85</sub>= 0.3443      D<sub>60</sub>= 0.2296

D<sub>50</sub>= 0.2052      D<sub>30</sub>= 0.1609      D<sub>15</sub>= 0.1203

D<sub>10</sub>= 0.1015      C<sub>u</sub>= 2.26              C<sub>c</sub>= 1.11

**Classification**

USCS= SP                      AASHTO=

**Remarks**

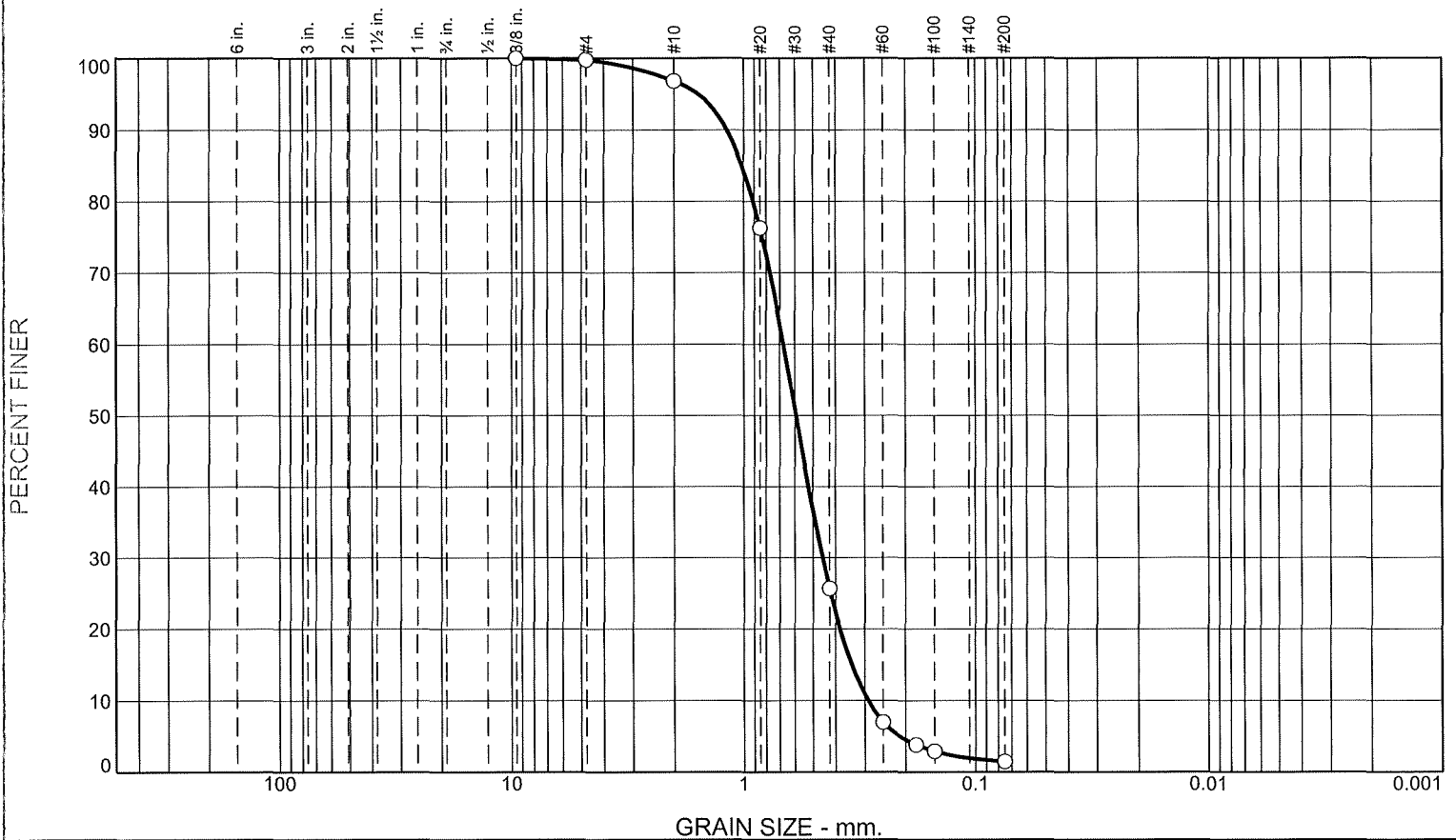
\* (no specification provided)

Sample Number: GE-WWA-01      Depth: 5'-6.8'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	3	71	25	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	100		
#10	97		
#20	76		
#40	26		
#60	7		
#80	4		
#100	3		
#200	1.5		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.1835      D<sub>85</sub>= 1.0162      D<sub>60</sub>= 0.6727  
D<sub>50</sub>= 0.5928      D<sub>30</sub>= 0.4549      D<sub>15</sub>= 0.3413  
D<sub>10</sub>= 0.2907      C<sub>u</sub>= 2.31              C<sub>c</sub>= 1.06

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-WWA-01

Depth: 10'-11'

Date: 1/16/2020



ALPHA-OMEGA GEOTECH

Client: Burns & McDonnell

Project: Vertical Profiling 2019 - Cimarron Facility, PO #160232

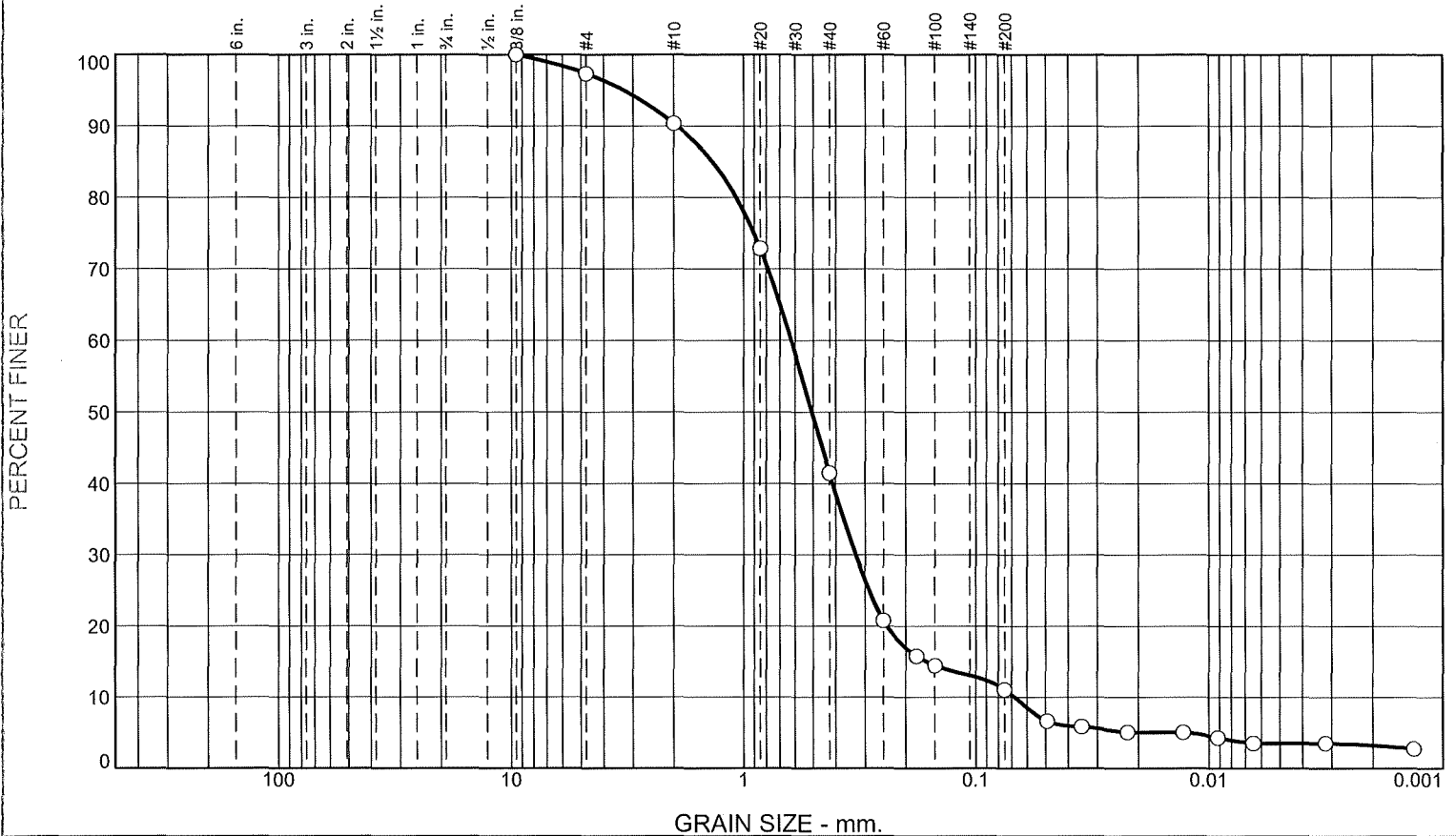
Project No: 20-109T

Figure 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	3	7	49	30	7	4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=N0)
.375	100		
#4	97		
#10	90		
#20	73		
#40	41		
#60	21		
#80	16		
#100	14		
#200	11		

**Material Description**

Brown poorly graded sand with clay

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.9368      D<sub>85</sub>= 1.3598      D<sub>60</sub>= 0.6243

D<sub>50</sub>= 0.5068      D<sub>30</sub>= 0.3294      D<sub>15</sub>= 0.1641

D<sub>10</sub>= 0.0680      C<sub>u</sub>= 9.18              C<sub>c</sub>= 2.55

**Classification**

USCS=                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-WWA-01

Depth: 15'-19.3'

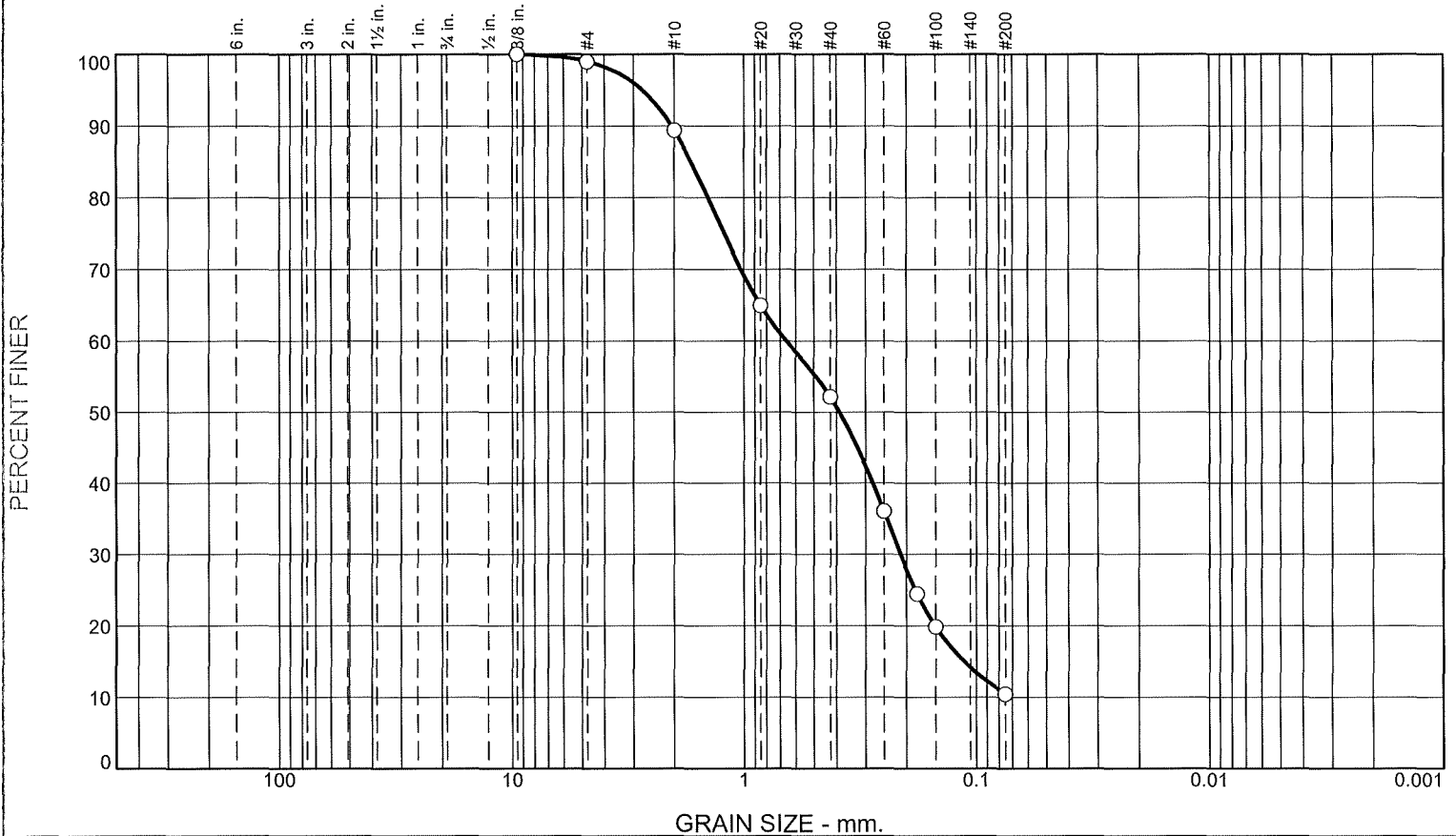
Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p> <p style="text-align: right;"><b>Figure</b> 1 of 1</p>
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Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	10	37	42	10	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	99		
#10	89		
#20	65		
#40	52		
#60	36		
#80	24		
#100	20		
#200	10		

**Material Description**

Brown poorly graded sand with silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.0576              D<sub>85</sub>= 1.6909              D<sub>60</sub>= 0.6590

D<sub>50</sub>= 0.3887              D<sub>30</sub>= 0.2125              D<sub>15</sub>= 0.1133

D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

USCS=                      **Classification**

AASHTO=

**Remarks**

\* (no specification provided)

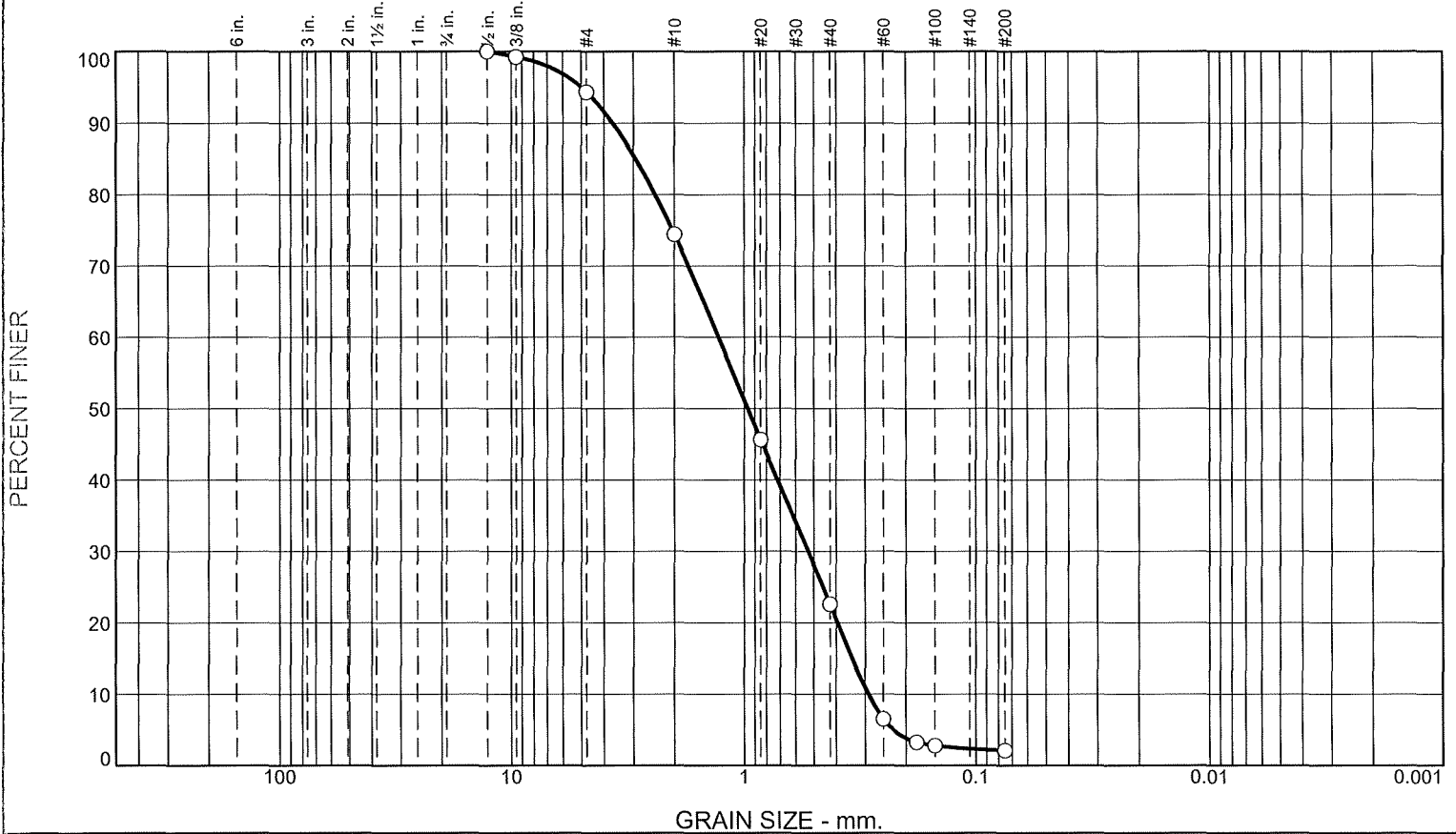
Sample Number: GE-WWA-01      Depth: 20'-24.7'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p>	<p><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	6	20	51	21	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100		
.375	99		
#4	94		
#10	74		
#20	46		
#40	23		
#60	6		
#80	3		
#100	3		
#200	2.1		

**Material Description**

Brown poorly graded sand

PL=	<b>Atterberg Limits</b>	PI=
	LL=	

<b>Coefficients</b>		
D <sub>90</sub> = 3.6668	D <sub>85</sub> = 2.9273	D <sub>60</sub> = 1.2915
D <sub>50</sub> = 0.9671	D <sub>30</sub> = 0.5289	D <sub>15</sub> = 0.3414
D <sub>10</sub> = 0.2903	C <sub>u</sub> = 4.45	C <sub>c</sub> = 0.75

USCS= SP	<b>Classification</b>	AASHTO=
	<b>Remarks</b>	

\* (no specification provided)

Sample Number: GE-WWA-01

Depth: 25'-27.3'

Date: 1/16/2020



**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232

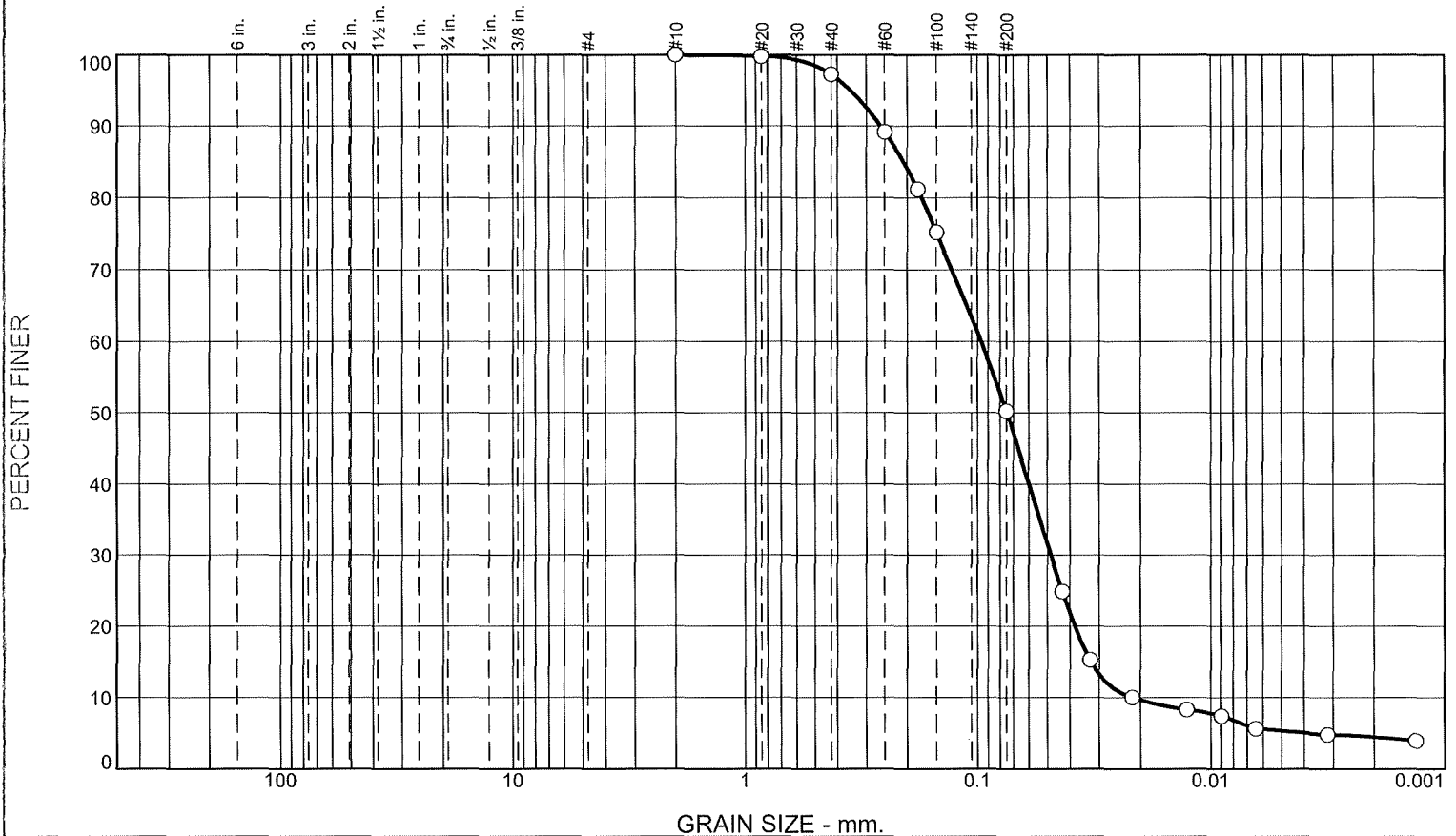
**Project No:** 20-109T

**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	3	47	45	5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100		
#20	100		
#40	97		
#60	89		
#80	81		
#100	75		
#200	50		

**Material Description**

Reddish brown Sandy LEAN CLAY

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.2608      D<sub>85</sub>= 0.2072      D<sub>60</sub>= 0.0963  
 D<sub>50</sub>= 0.0746      D<sub>30</sub>= 0.0483      D<sub>15</sub>= 0.0326  
 D<sub>10</sub>= 0.0215      C<sub>u</sub>= 4.47              C<sub>c</sub>= 1.12

**Classification**

USCS=                      AASHTO=

**Remarks**

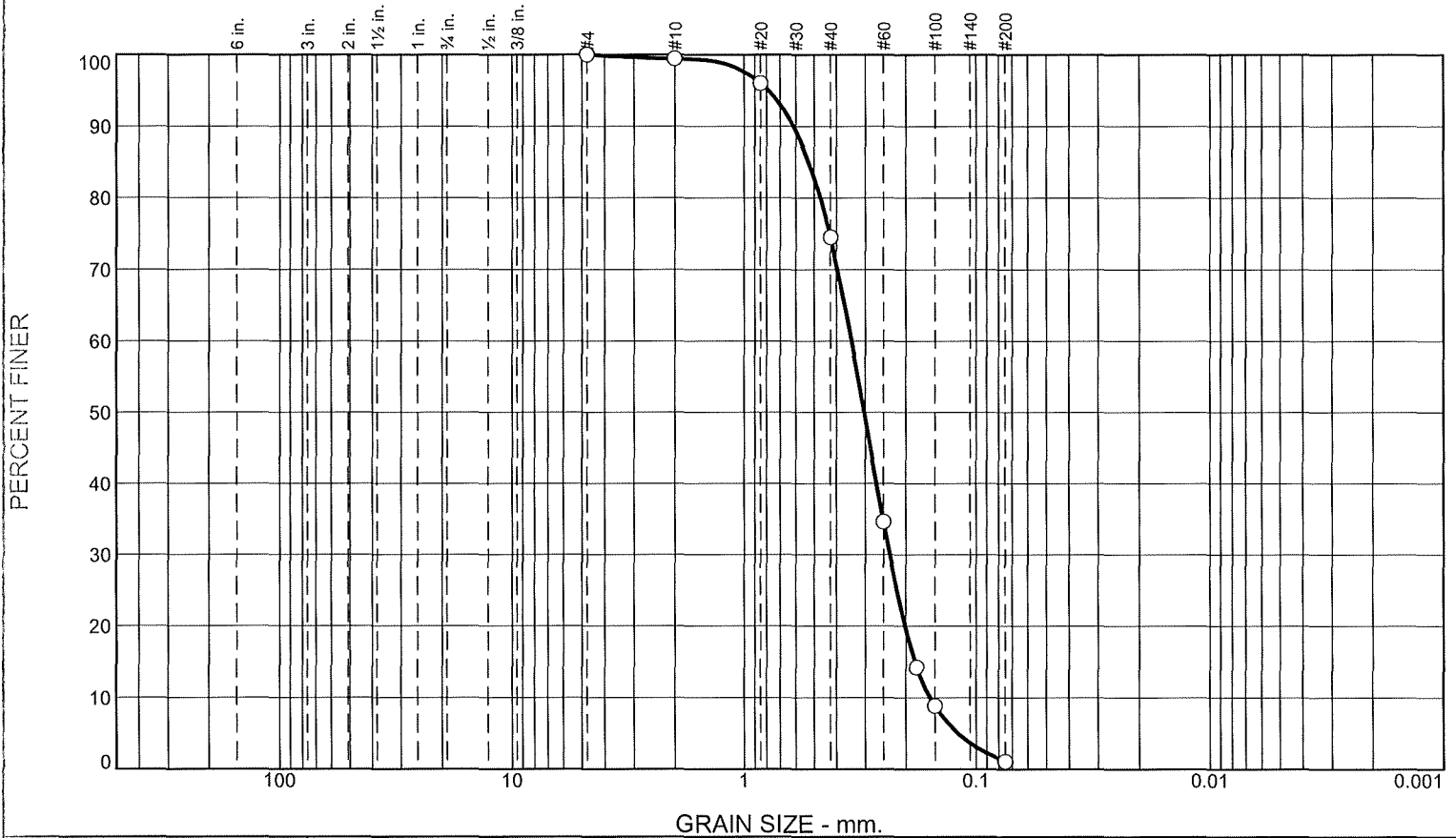
\* (no specification provided)

Sample Number: GE-WWA-06      Depth: 5'-8.5'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T</p> <p style="text-align: right;"><b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	25	73	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	99		
#20	96		
#40	74		
#60	35		
#80	14		
#100	9		
#200	1.1		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.6135      D<sub>85</sub>= 0.5269      D<sub>60</sub>= 0.3448  
D<sub>50</sub>= 0.3037      D<sub>30</sub>= 0.2351      D<sub>15</sub>= 0.1833  
D<sub>10</sub>= 0.1576      C<sub>u</sub>= 2.19              C<sub>c</sub>= 1.02

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-WWA-06

Depth: 10'-13.4'

Date: 1/16/2020



**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232

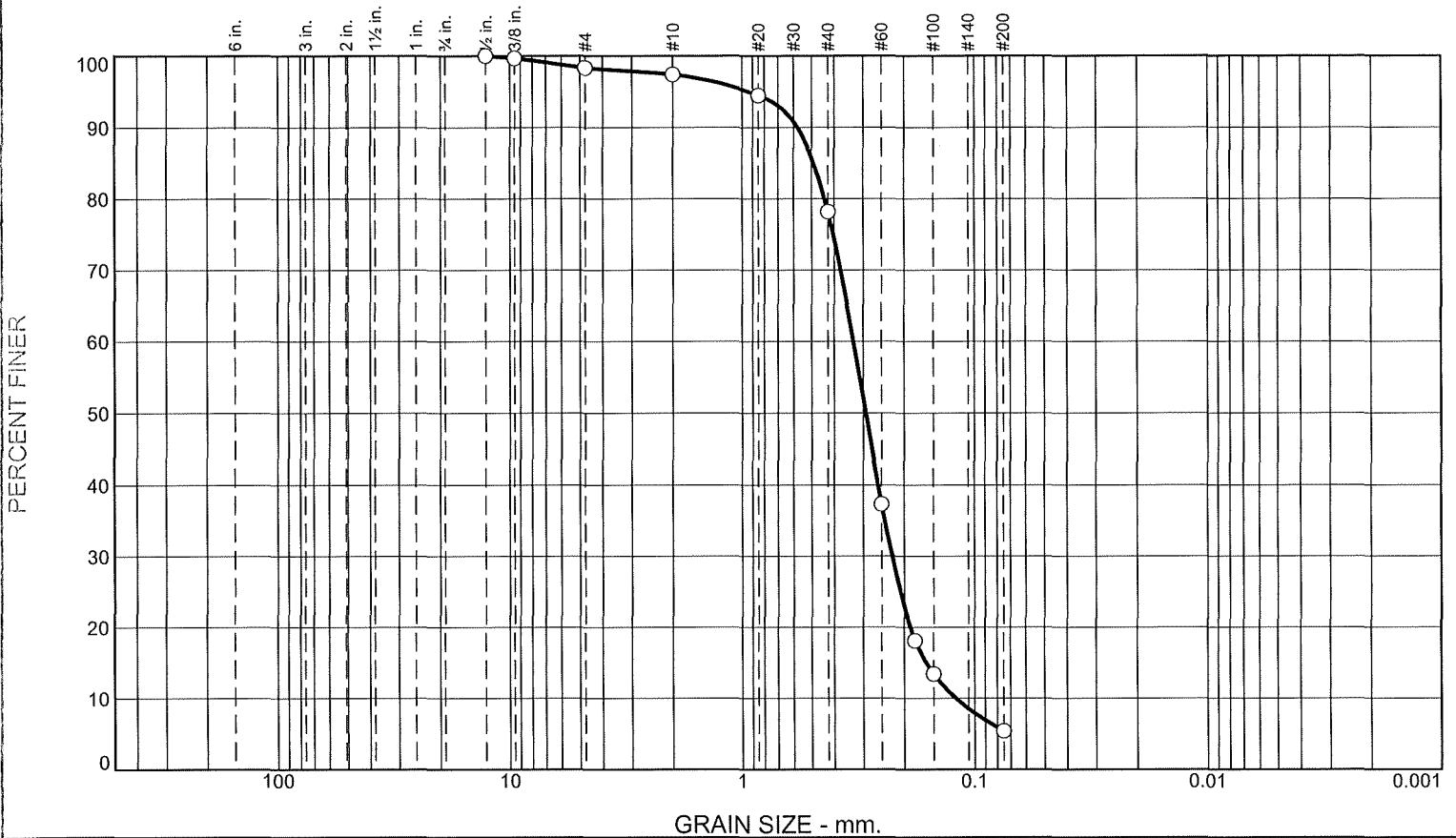
**Project No:** 20-109T

**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	2	1	19	73	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100		
.375	100		
#4	98		
#10	97		
#20	95		
#40	78		
#60	37		
#80	18		
#100	13		
#200	5.4		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.5765      D<sub>85</sub>= 0.4897      D<sub>60</sub>= 0.3303

D<sub>50</sub>= 0.2927      D<sub>30</sub>= 0.2257      D<sub>15</sub>= 0.1618

D<sub>10</sub>= 0.1205      C<sub>u</sub>= 2.74              C<sub>c</sub>= 1.28

**Classification**

USCS=                      AASHTO=

**Remarks**

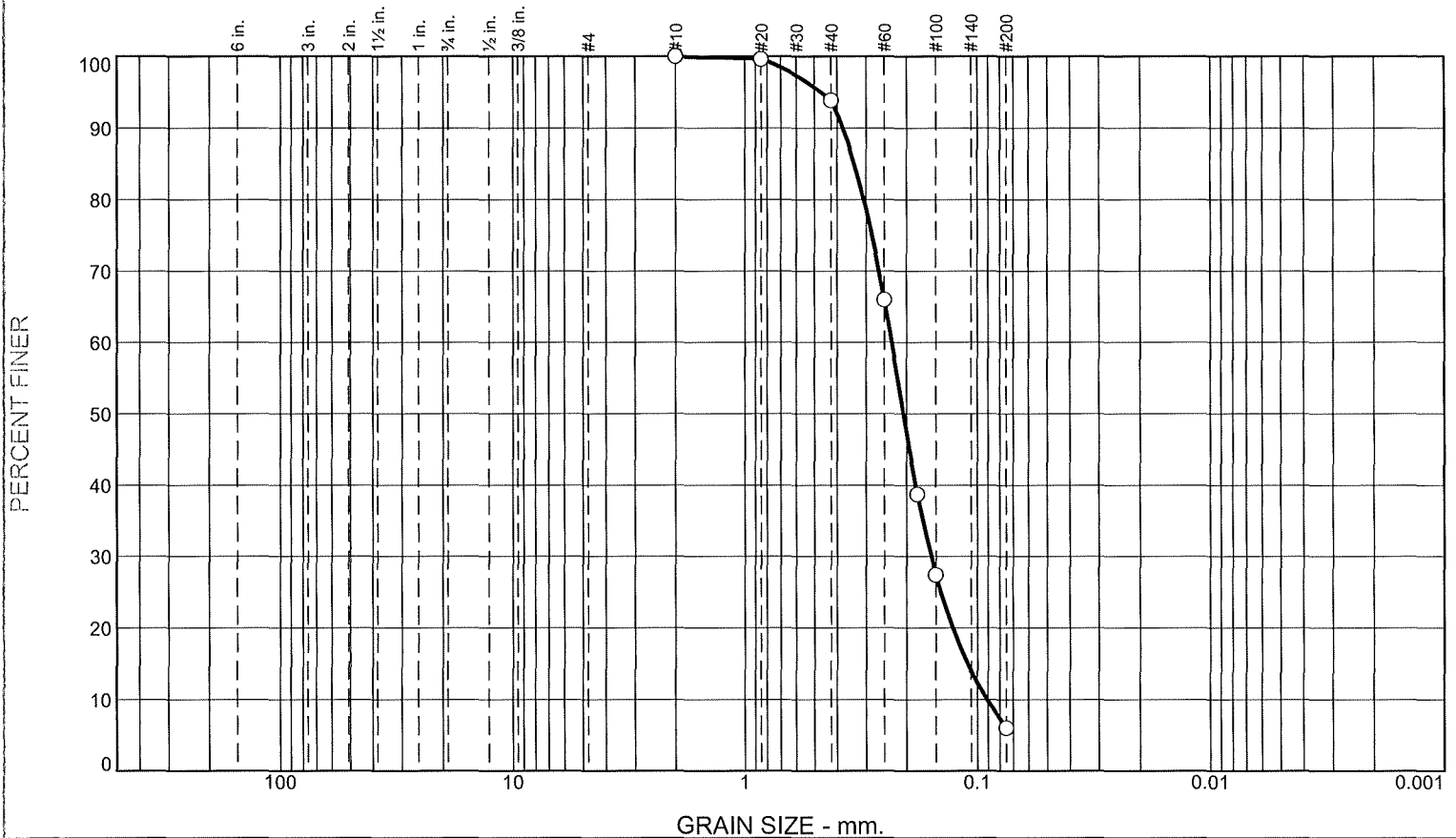
\* (no specification provided)

Sample Number: GE-WWA-06      Depth: 15'-17'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	6	88	6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100		
#20	100		
#40	94		
#60	66		
#80	39		
#100	27		
#200	6.0		

**Material Description**

Brown poorly graded sand with silt

PL=	<b>Atterberg Limits</b>	PI=
	LL=	
	<b>Coefficients</b>	
D <sub>90</sub> = 0.3777	D <sub>85</sub> = 0.3368	D <sub>60</sub> = 0.2325
D <sub>50</sub> = 0.2070	D <sub>30</sub> = 0.1573	D <sub>15</sub> = 0.1099
D <sub>10</sub> = 0.0905	C <sub>u</sub> = 2.57	C <sub>c</sub> = 1.18
USCS=	<b>Classification</b>	AASHTO=
	<b>Remarks</b>	

\* (no specification provided)

Sample Number: GE-WWA-13

Depth: 5'-8'

Date: 1/16/2020



**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232

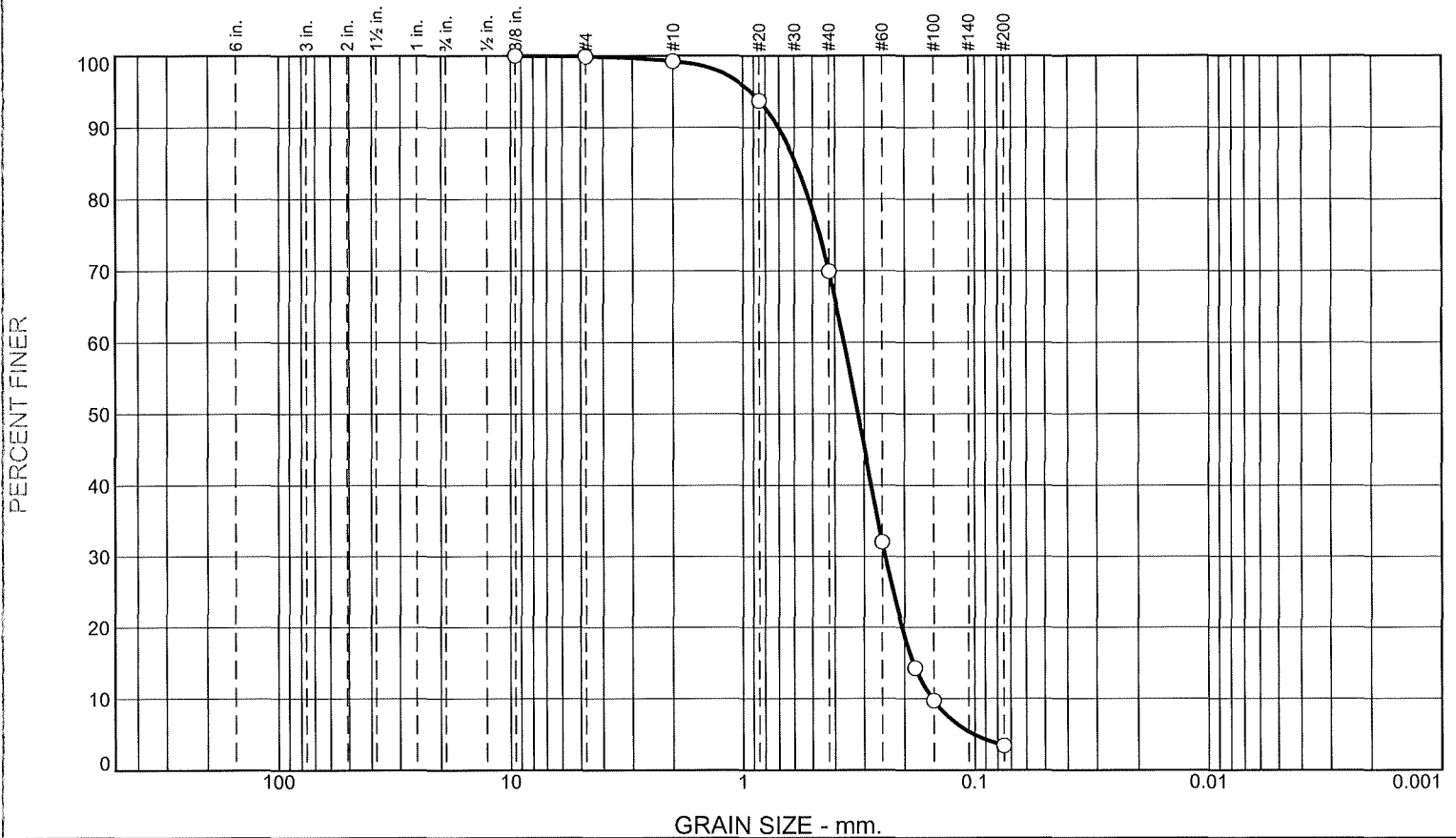
**Project No:** 20-109T

**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	29	67	3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	100		
#10	99		
#20	94		
#40	70		
#60	32		
#80	14		
#100	10		
#200	3.4		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.7021      D<sub>85</sub>= 0.5891      D<sub>60</sub>= 0.3658  
D<sub>50</sub>= 0.3193      D<sub>30</sub>= 0.2427      D<sub>15</sub>= 0.1836  
D<sub>10</sub>= 0.1525      C<sub>u</sub>= 2.40              C<sub>c</sub>= 1.06

**Classification**

USCS= SP                      AASHTO=

**Remarks**

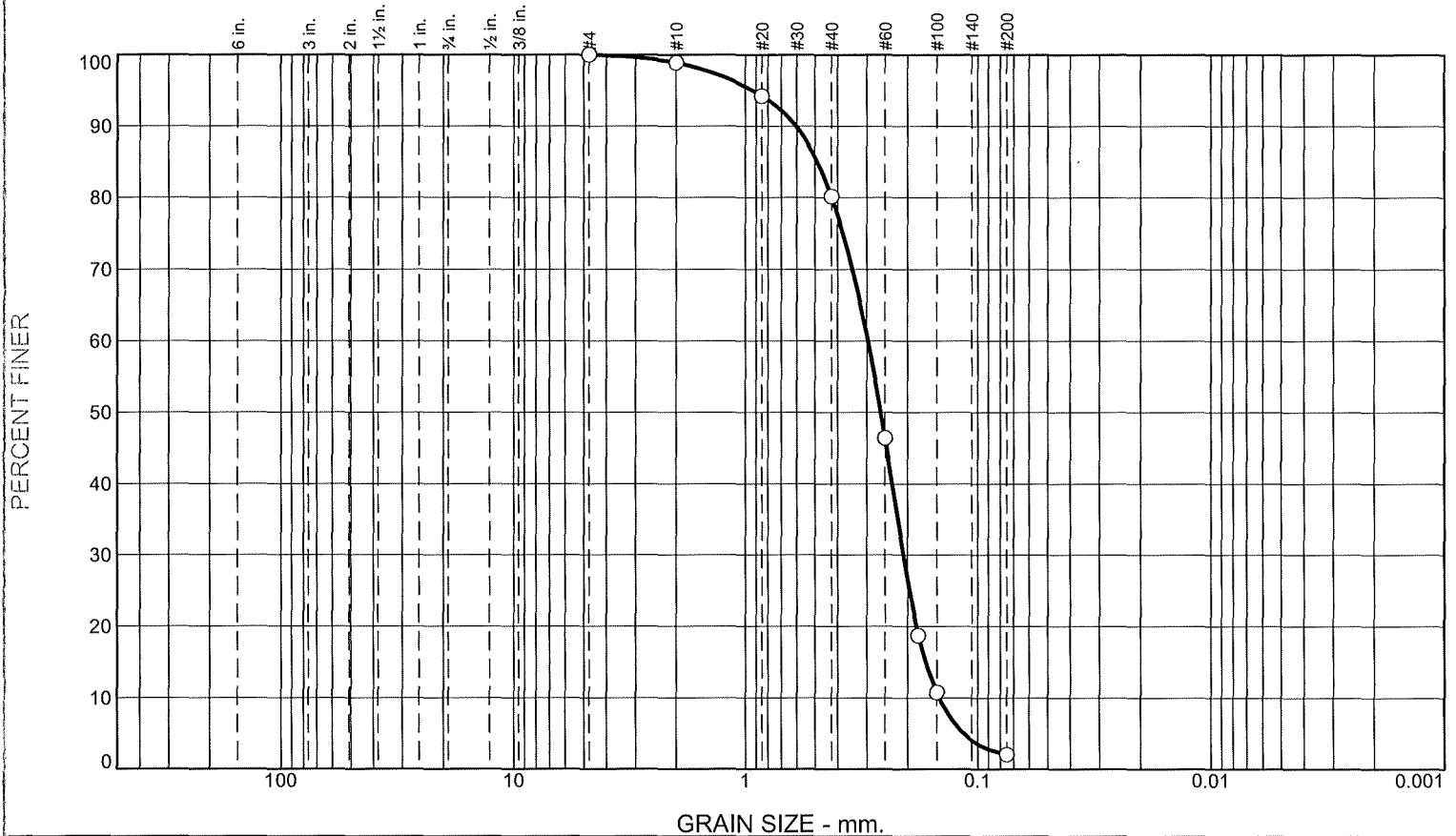
\* (no specification provided)

Sample Number: GE-WWA-13      Depth: 10'-15'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	19	78	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	99		
#20	94		
#40	80		
#60	46		
#80	19		
#100	11		
#200	2.1		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.6031      D<sub>85</sub>= 0.4884      D<sub>60</sub>= 0.2965  
 D<sub>50</sub>= 0.2607      D<sub>30</sub>= 0.2086      D<sub>15</sub>= 0.1679  
 D<sub>10</sub>= 0.1462      C<sub>u</sub>= 2.03              C<sub>c</sub>= 1.00

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-WWA-13

Depth: 15'-18.2'

Date: 1/16/2020

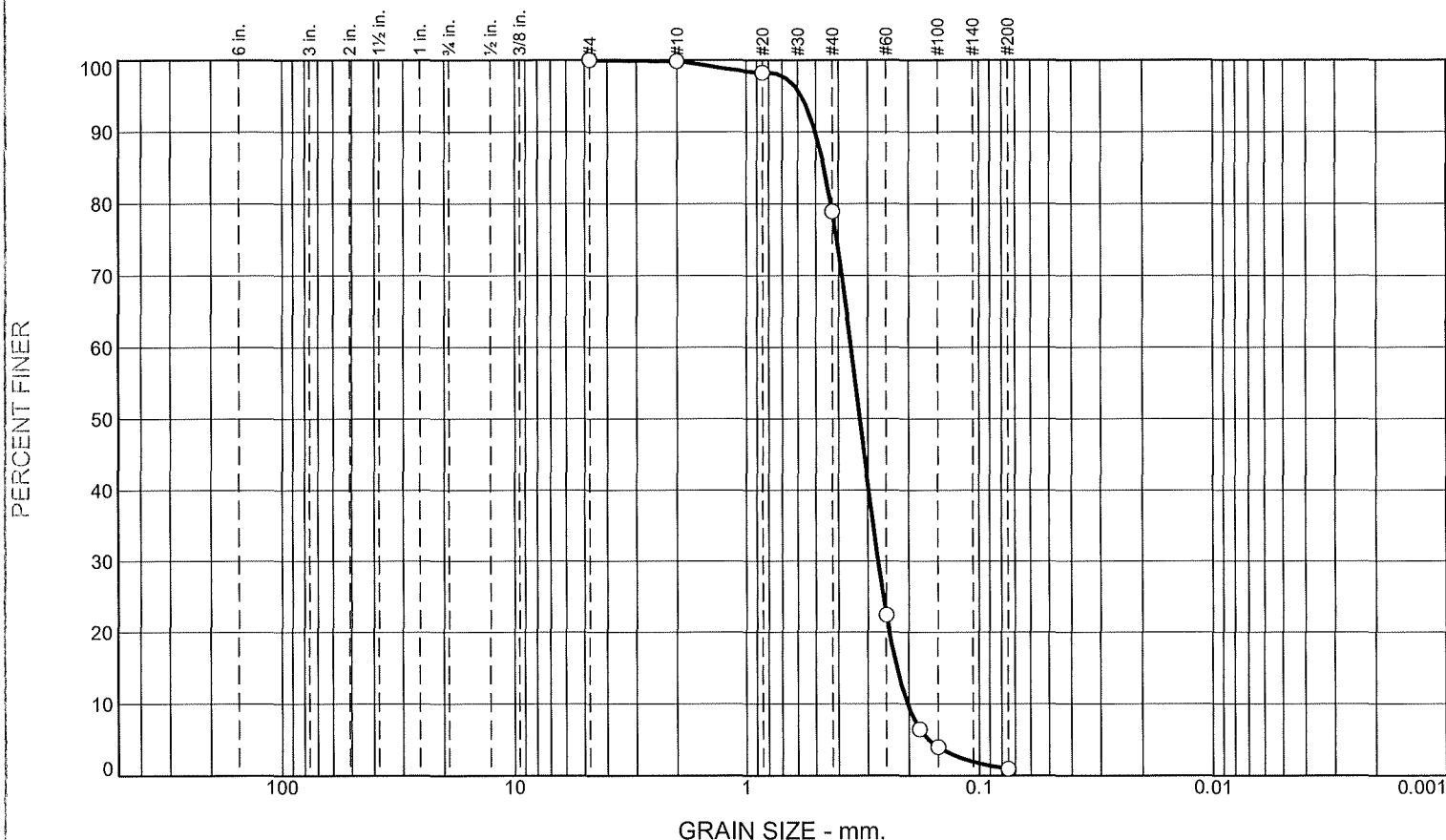


**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232  
**Project No:** 20-109T  
**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	21	78	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	100		
#20	98		
#40	79		
#60	22		
#80	6		
#100	4		
#200	1.0		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.5034      D<sub>85</sub>= 0.4609      D<sub>60</sub>= 0.3534  
 D<sub>50</sub>= 0.3244      D<sub>30</sub>= 0.2713      D<sub>15</sub>= 0.2251  
 D<sub>10</sub>= 0.2030      C<sub>u</sub>= 1.74              C<sub>c</sub>= 1.03

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-09

Depth: 5'-8'

Date: 1/16/2020



ALPHA-OMEGA GEOTECH

**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232

**Project No:** 20-109T

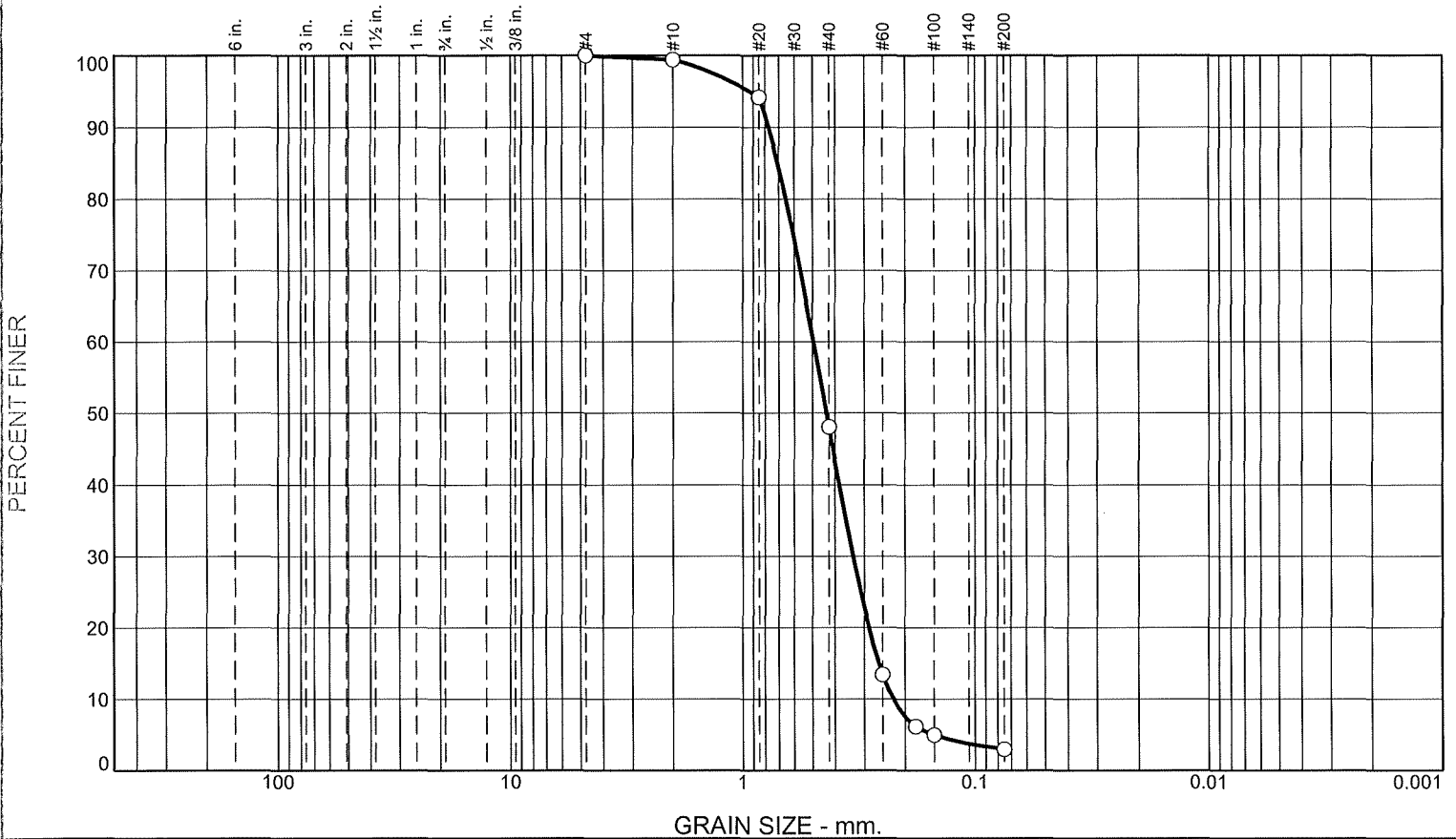
**Figure** 1 of 1

Tested By: DB

Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	51	45	3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	99		
#20	94		
#40	48		
#60	13		
#80	6		
#100	5		
#200	3.0		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.7735      D<sub>85</sub>= 0.7054      D<sub>60</sub>= 0.4947  
D<sub>50</sub>= 0.4358      D<sub>30</sub>= 0.3350      D<sub>15</sub>= 0.2595  
D<sub>10</sub>= 0.2254      C<sub>u</sub>= 2.19              C<sub>c</sub>= 1.01

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-09

Depth: 10'-15'

Date: 1/16/2020



**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232

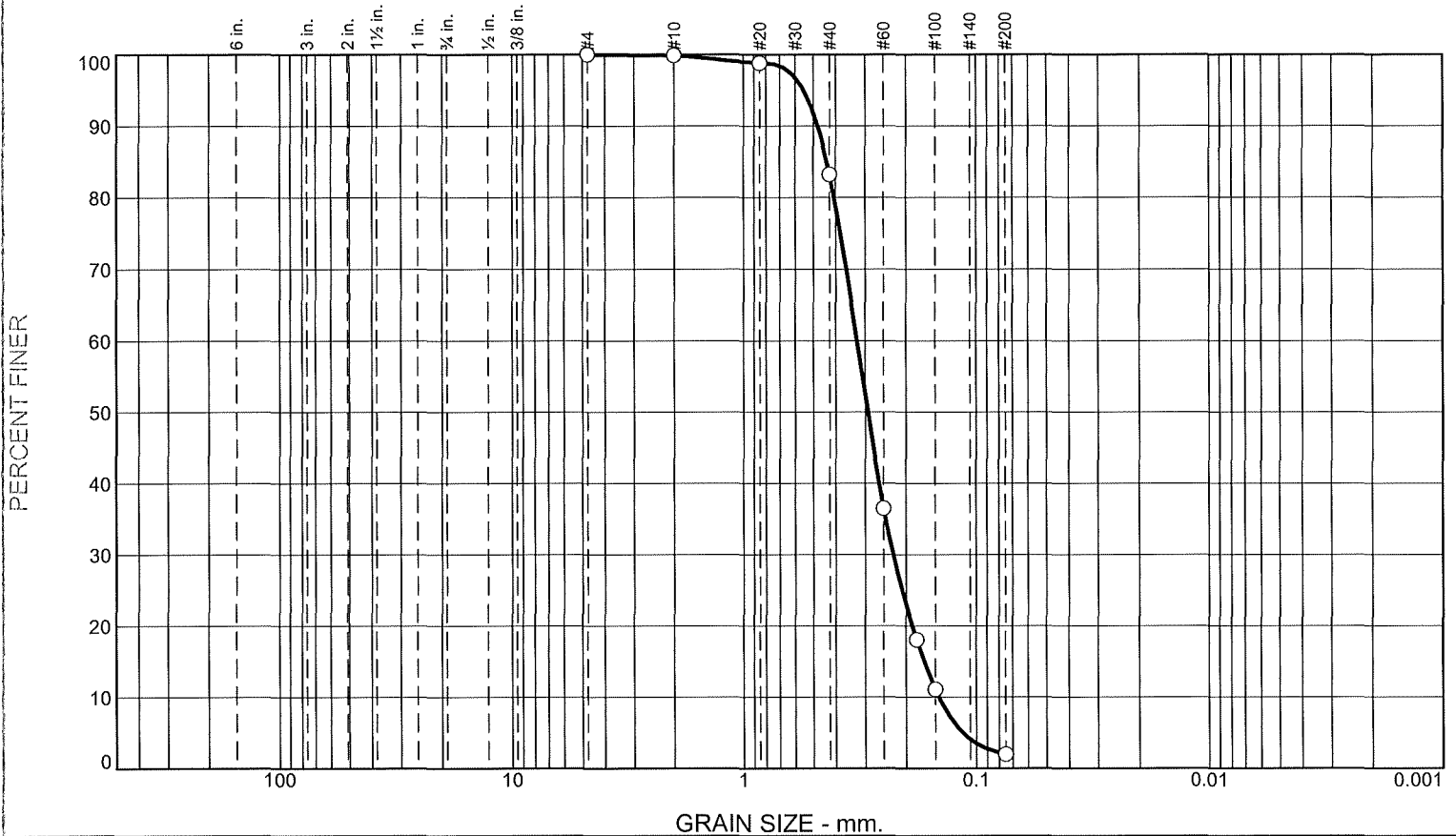
**Project No:** 20-109T

**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	17	81	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	100		
#20	99		
#40	83		
#60	36		
#80	18		
#100	11		
#200	1.9		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.4791      D<sub>85</sub>= 0.4368      D<sub>60</sub>= 0.3246  
D<sub>50</sub>= 0.2924      D<sub>30</sub>= 0.2276      D<sub>15</sub>= 0.1672  
D<sub>10</sub>= 0.1448      C<sub>u</sub>= 2.24              C<sub>c</sub>= 1.10

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-09

Depth: 15'-19.5'

Date: 1/16/2020

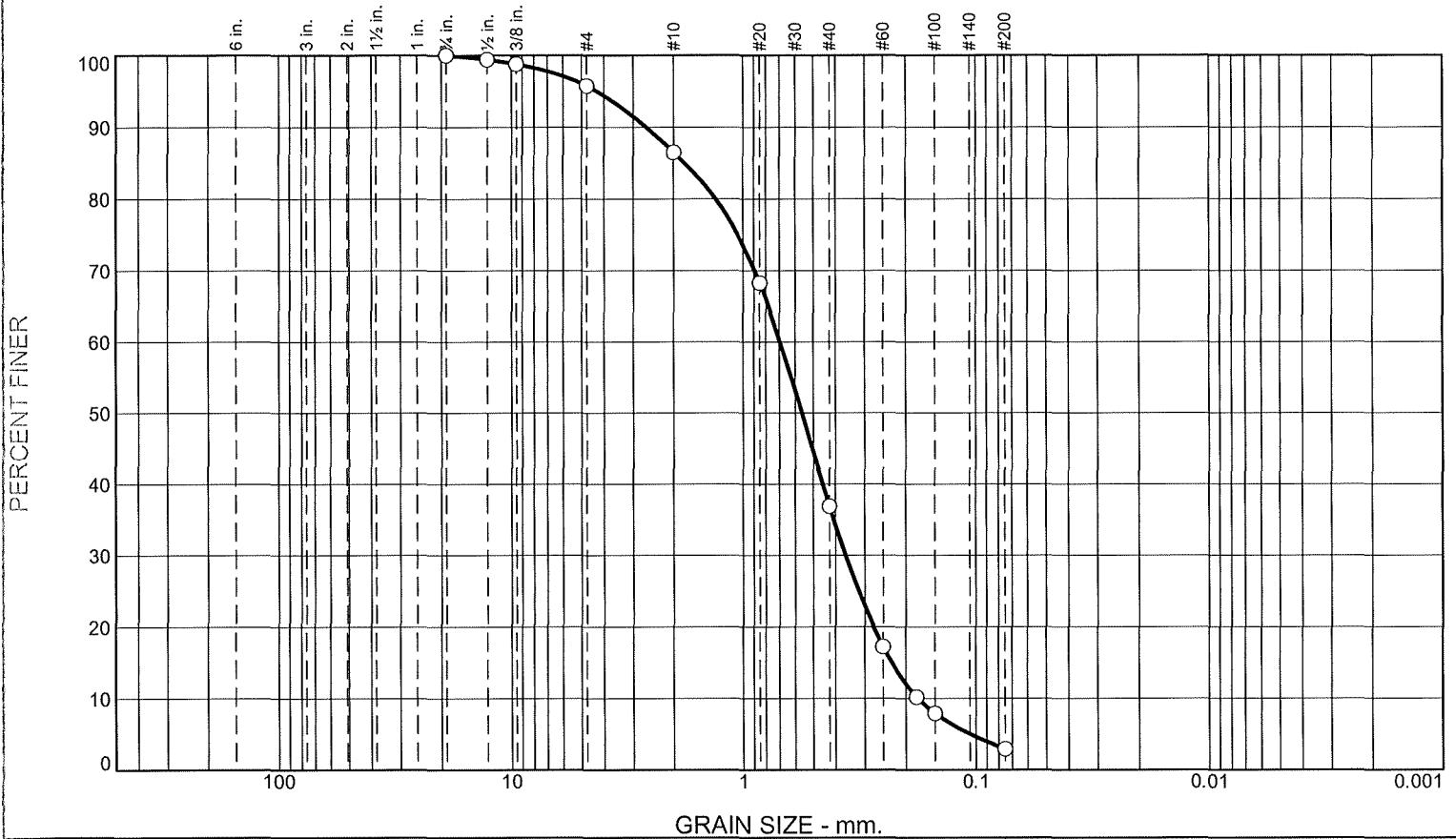


**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232  
**Project No:** 20-109T  
**Figure** 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	4	9	50	34	3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100		
.5	99		
.375	99		
#4	96		
#10	87		
#20	68		
#40	37		
#60	17		
#80	10		
#100	8		
#200	2.9		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.6384      D<sub>85</sub>= 1.7865      D<sub>60</sub>= 0.6948  
D<sub>50</sub>= 0.5610      D<sub>30</sub>= 0.3622      D<sub>15</sub>= 0.2297  
D<sub>10</sub>= 0.1781      C<sub>u</sub>= 3.90              C<sub>c</sub>= 1.06

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-09

Depth: 20'-24'

Date: 1/16/2020



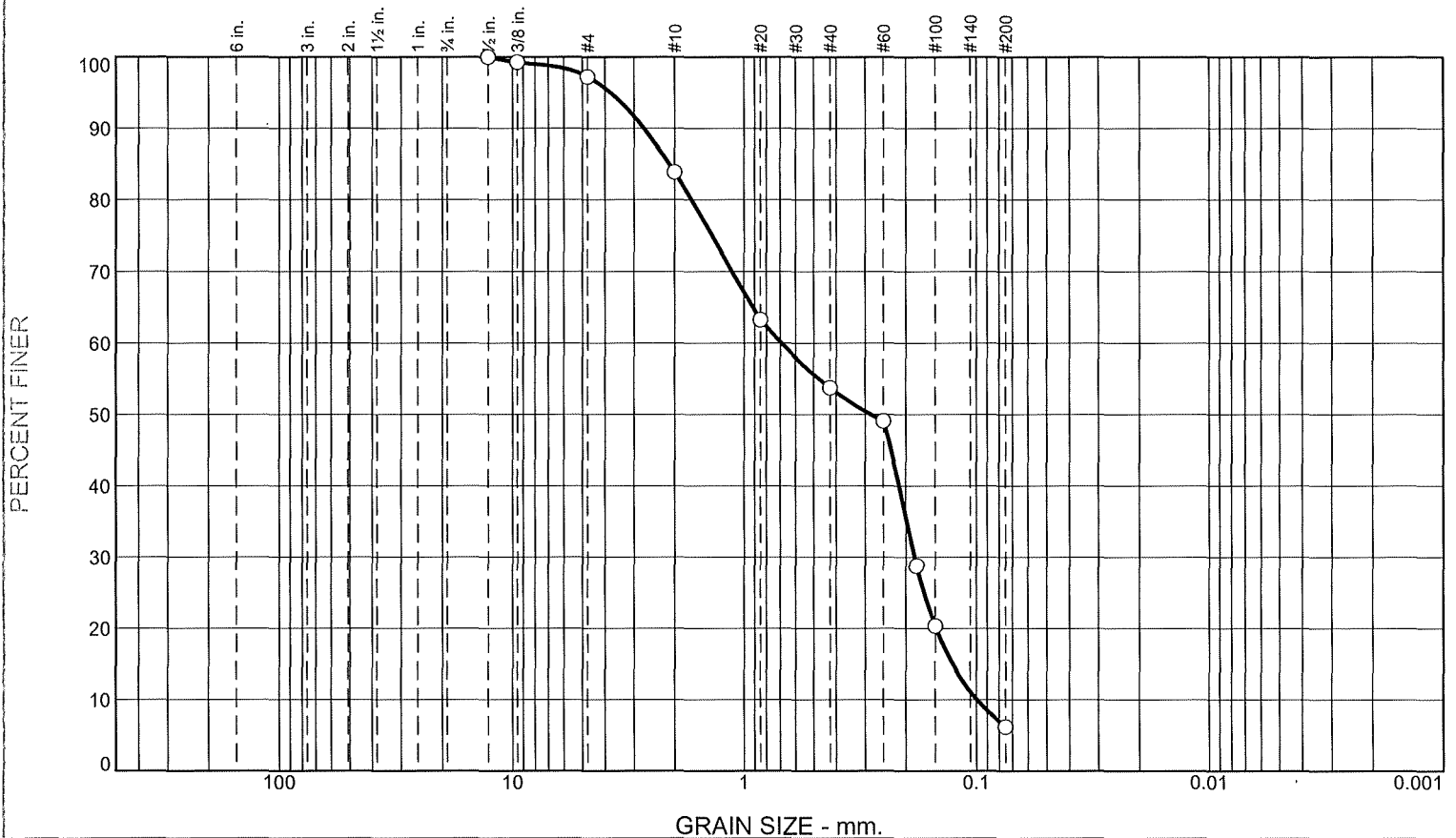
**Client:** Burns & McDonnell  
**Project:** Vertical Profiling 2019 - Cimarron Facility, PO #160232  
**Project No:** 20-109T

Figure 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	3	13	30	48	6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100		
.375	99		
#4	97		
#10	84		
#20	63		
#40	54		
#60	49		
#80	29		
#100	20		
#200	6.2		

**Material Description**

Reddish brown poorly graded sand with silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.7161              D<sub>85</sub>= 2.1093              D<sub>60</sub>= 0.6916  
D<sub>50</sub>= 0.2852              D<sub>30</sub>= 0.1838              D<sub>15</sub>= 0.1265  
D<sub>10</sub>= 0.0994              C<sub>u</sub>= 6.96                      C<sub>c</sub>= 0.49

**Classification**

USCS=                      AASHTO=

**Remarks**

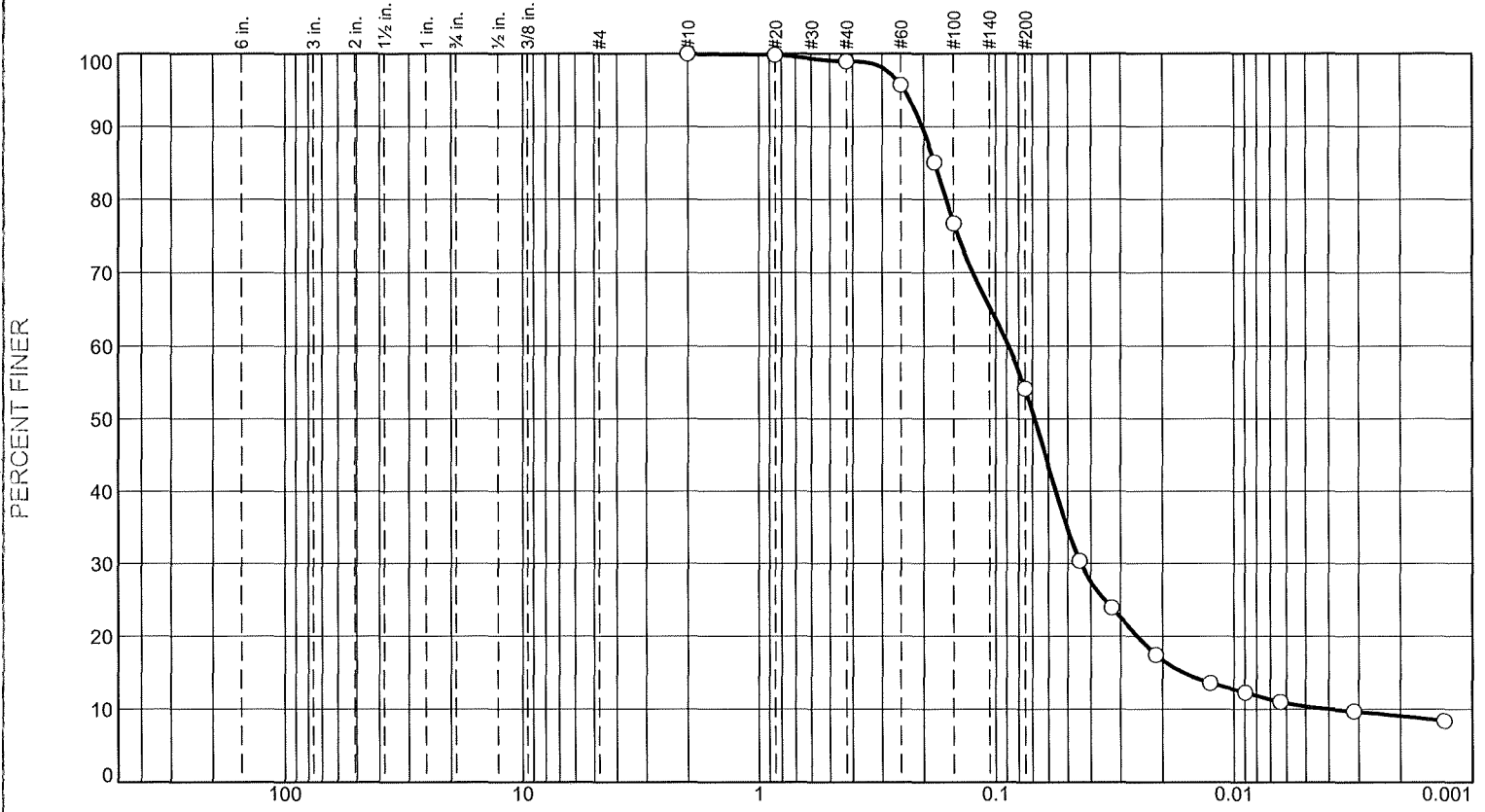
\* (no specification provided)

Sample Number: GE-BA1-09              Depth: 25'-27'                                      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T                      <b>Figure</b> 1 of 1</p>
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Tested By: DB                      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	1	45	44	10

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100		
#20	100		
#40	99		
#60	96		
#80	85		
#100	77		
#200	54		

**Material Description**

Reddish brown Sandy LEAN CLAY

PL=	<b>Atterberg Limits</b> LL=	PI=
	<b>Coefficients</b>	
D <sub>90</sub> = 0.2035	D <sub>85</sub> = 0.1796	D <sub>60</sub> = 0.0883
D <sub>50</sub> = 0.0684	D <sub>30</sub> = 0.0441	D <sub>15</sub> = 0.0164
D <sub>10</sub> = 0.0040	C <sub>u</sub> = 22.14	C <sub>c</sub> = 5.52
USCS=	<b>Classification</b> AASHTO=	
<b>Remarks</b>		

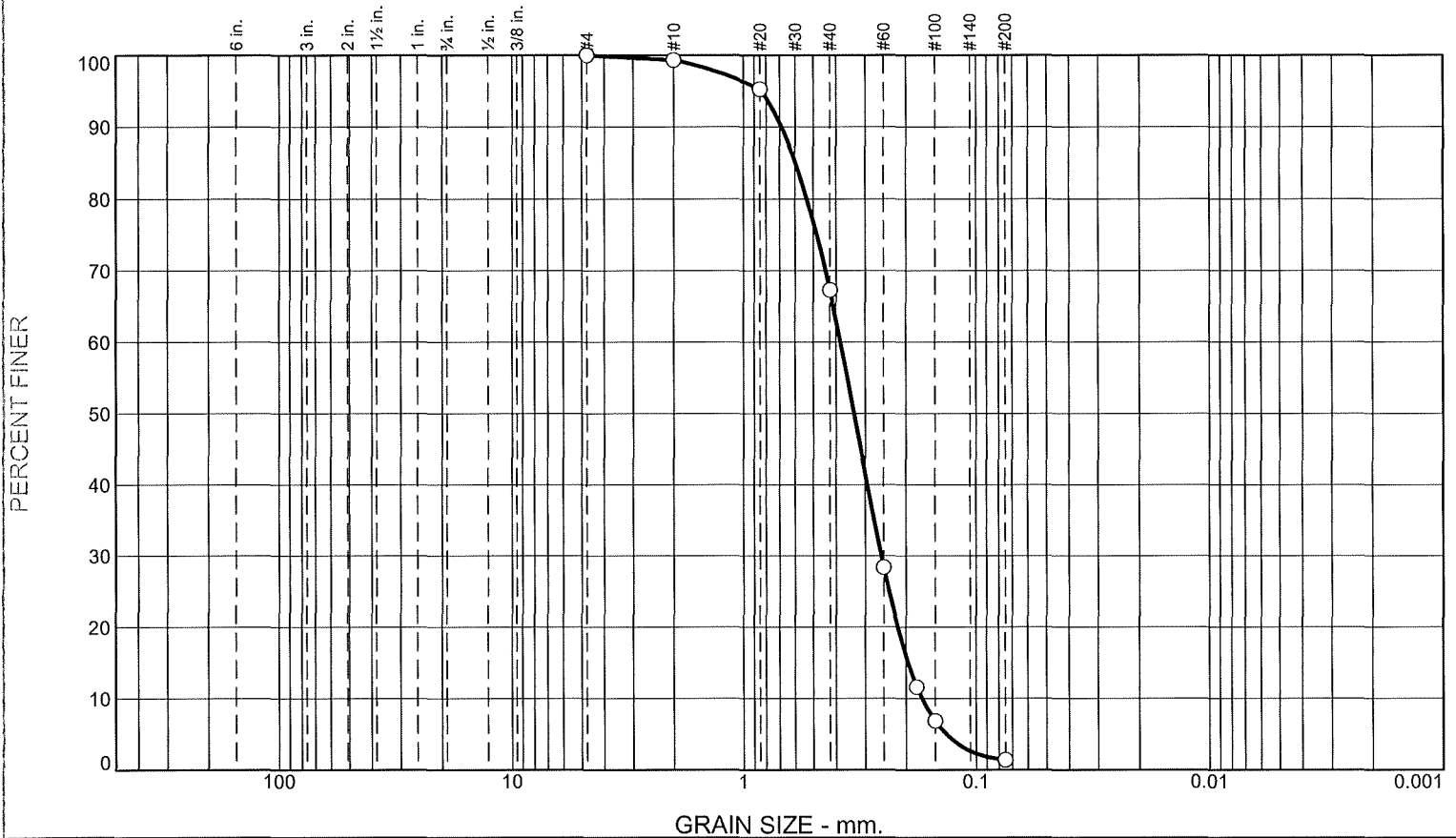
\* (no specification provided)

Sample Number: GE-BA1-05      Depth: 5'-8'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	1	32	66	1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100		
#10	99		
#20	95		
#40	67		
#60	28		
#80	12		
#100	7		
#200	1.4		

**Material Description**

Brown poorly graded sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.6865      D<sub>85</sub>= 0.5960      D<sub>60</sub>= 0.3828  
D<sub>50</sub>= 0.3351      D<sub>30</sub>= 0.2560      D<sub>15</sub>= 0.1963  
D<sub>10</sub>= 0.1711      C<sub>u</sub>= 2.24              C<sub>c</sub>= 1.00

**Classification**

USCS= SP                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-05

Depth: 15'-19.5'

Date: 1/16/2020



ALPHA-OMEGA GEOTECH

Client: Burns & McDonnell

Project: Vertical Profiling 2019 - Cimarron Facility, PO #160232

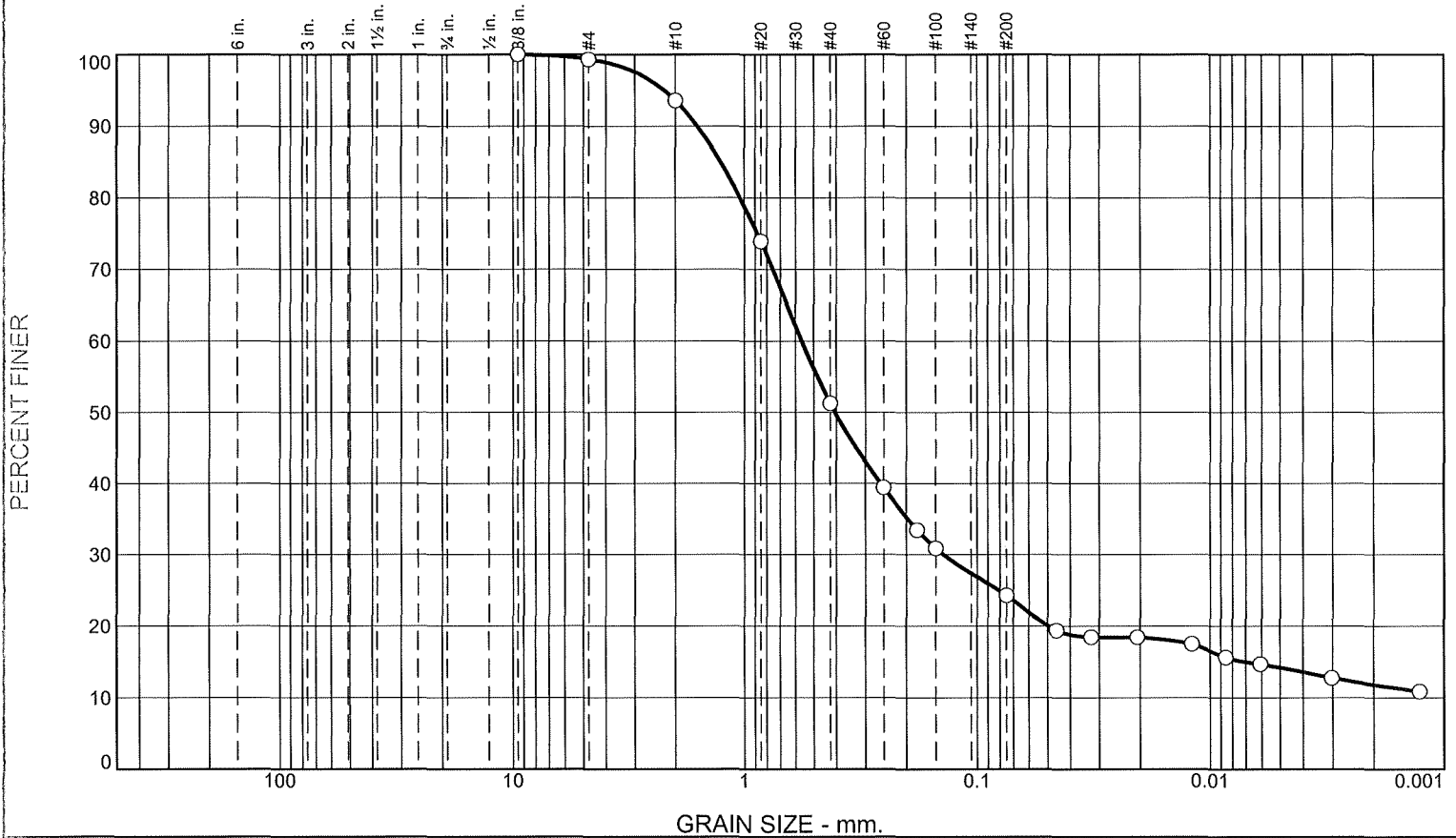
Project No: 20-109T

Figure 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	5	43	27	10	14

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	99		
#10	94		
#20	74		
#40	51		
#60	39		
#80	33		
#100	31		
#200	24		

**Material Description**

Brown clayey sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.6060      D<sub>85</sub>= 1.2687      D<sub>60</sub>= 0.5628  
D<sub>50</sub>= 0.4062      D<sub>30</sub>= 0.1393      D<sub>15</sub>= 0.0072  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS=                      AASHTO=

**Remarks**

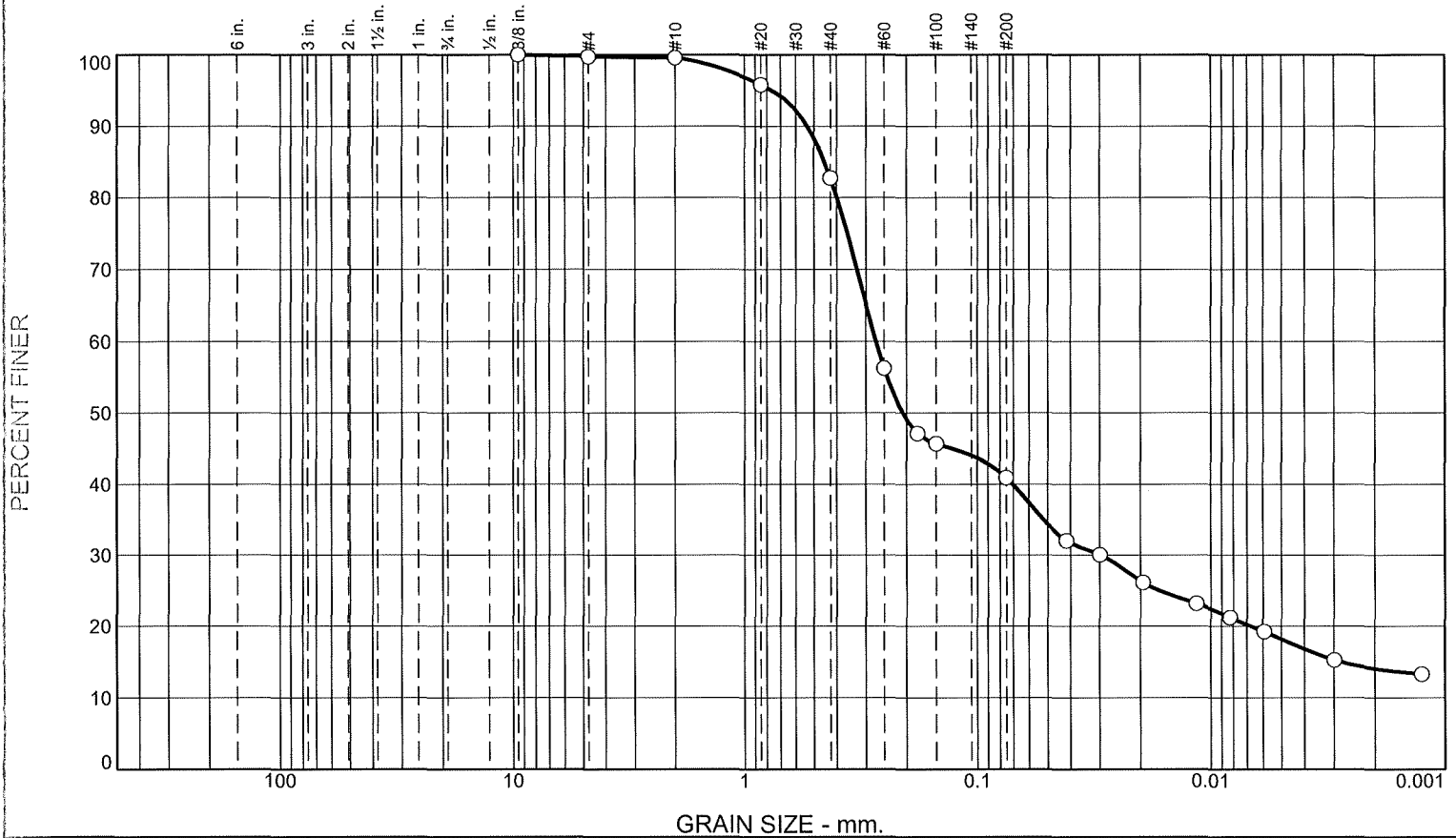
\* (no specification provided)

Sample Number: GE-BA1-05      Depth: 20'-24'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	17	42	23	18

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100		
#4	100		
#10	100		
#20	96		
#40	83		
#60	56		
#80	47		
#100	46		
#200	41		

**Material Description**

Brown clayey sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.5349      D<sub>85</sub>= 0.4505      D<sub>60</sub>= 0.2714  
D<sub>50</sub>= 0.2087      D<sub>30</sub>= 0.0296      D<sub>15</sub>= 0.0028  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS=                      AASHTO=

**Remarks**

\* (no specification provided)

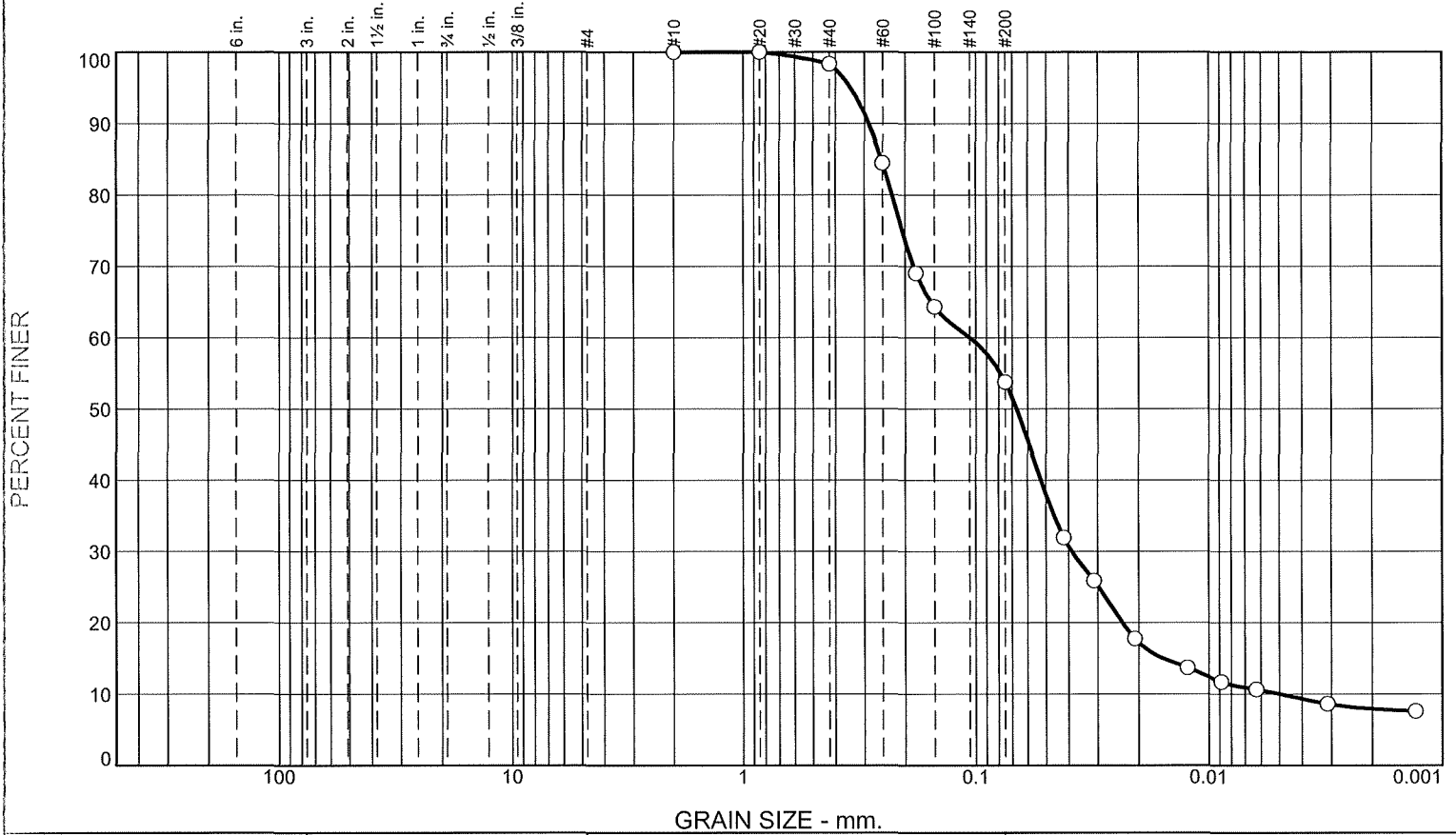
Sample Number: GE-BA1-05      Depth: 25'-29'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	2	44	44	10

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100		
#20	100		
#40	98		
#60	85		
#80	69		
#100	64		
#200	54		

**Material Description**

Reddish brown Sandy LEAN CLAY

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.2873      D<sub>85</sub>= 0.2527      D<sub>60</sub>= 0.1061  
D<sub>50</sub>= 0.0671      D<sub>30</sub>= 0.0388      D<sub>15</sub>= 0.0158  
D<sub>10</sub>= 0.0050      C<sub>u</sub>= 21.31          C<sub>c</sub>= 2.85

**Classification**

USCS=                      AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-02

Depth: 5'-7.5'

Date: 1/16/2020



ALPHA-OMEGA GEOTECH

Client: Burns & McDonnell

Project: Vertical Profiling 2019 - Cimarron Facility, PO #160232

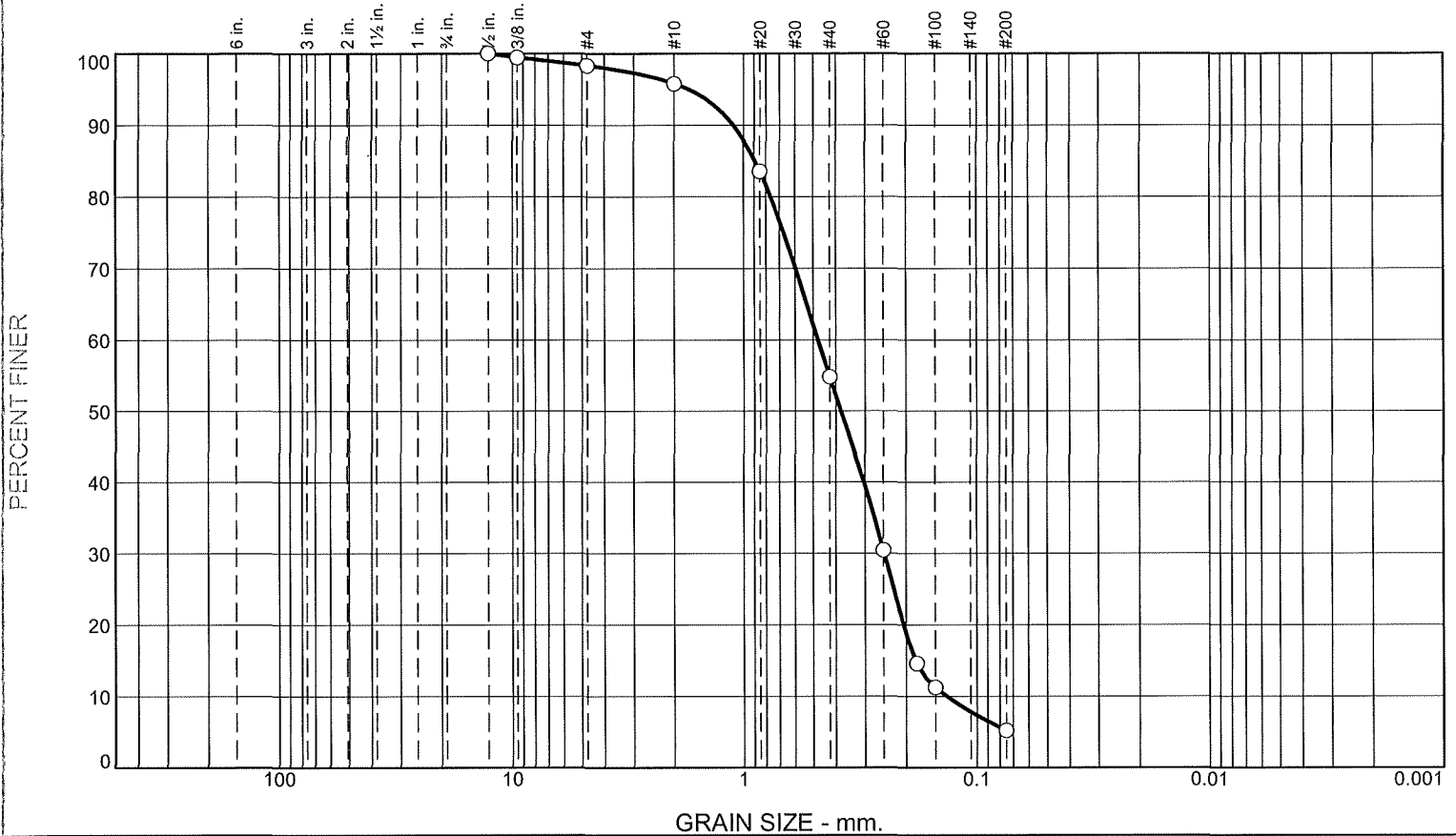
Project No: 20-109T

Figure 1 of 1

Tested By: DB

Checked By: TB

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	2	2	41	50	5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100		
.375	99		
#4	98		
#10	96		
#20	84		
#40	55		
#60	30		
#80	15		
#100	11		
#200	5.2		

**Material Description**

Brown poorly graded sand

PL=	<b>Atterberg Limits</b>	LL=	PI=
	<b>Coefficients</b>		
D <sub>90</sub> = 1.1104	D <sub>85</sub> = 0.8928	D <sub>60</sub> = 0.4775	
D <sub>50</sub> = 0.3809	D <sub>30</sub> = 0.2479	D <sub>15</sub> = 0.1824	
D <sub>10</sub> = 0.1342	C <sub>u</sub> = 3.56	C <sub>c</sub> = 0.96	

USCS=	<b>Classification</b>
	AASHTO=

**Remarks**

\* (no specification provided)

Sample Number: GE-BA1-02      Depth: 15'-21'      Date: 1/16/2020

<p><b>ALPHA-OMEGA GEOTECH</b></p>	<p><b>Client:</b> Burns &amp; McDonnell</p> <p><b>Project:</b> Vertical Profiling 2019 - Cimarron Facility, PO #160232</p> <p><b>Project No:</b> 20-109T      <b>Figure</b> 1 of 1</p>
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Tested By: DB      Checked By: TB



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