

**APPENDIX D –
LABORATORY
ANALYTICAL
REPORTS**

March 07, 2016

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

Re: Cimarron February 2016 GWM
Work Order: 391691

Dear Mr. Lux:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 19, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4453.

Sincerely,

Chelsea Seagle
Chelsea Seagle for
Edith Kent
Project Manager

Purchase Order: tbd
Chain of Custody: 2016-001, 2016-002 and 2016-003
Enclosures



Table of Contents

Case Narrative.....	1
Chain of Custody and Supporting Documentation.....	4
Laboratory Certification.....	9
Metals Analysis.....	11
Case Narrative.....	12
Sample Data Summary.....	17
Quality Control Summary.....	31
General Chem Analysis.....	34
Case Narrative.....	35
Sample Data Summary.....	43
Quality Control Summary.....	60

Case Narrative

**CASE NARRATIVE
for
Burns & McDonnell
Cimarron February 2016 GWM
SDG:391691**

March 07, 2016

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 February 19, 2016 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:

<u>Laboratory ID</u>	<u>Client ID</u>
391691001	MWWA-03
391691002	MWWA-03DUP
391691003	MWWA-09
391691004	T-62
391691005	T-76
391691006	T-69
391691007	T-57
391691008	T-58
391691009	T-77
391691010	T-79
391691011	T-79DUP
391691012	T-96
391691013	T-86
391691014	T-59
391691015	T-88
391691016	T-88DUP

Case Narrative

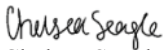
Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

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.


Chelsea Seagle for
Edith Kent
Project Manager

Chain of Custody and Supporting Documentation

COC #: 2016-001

PAGE 1 OF 8

DOCUMENT CONTROL

QA Review

DATE: 02/18/2010

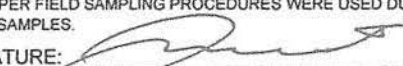
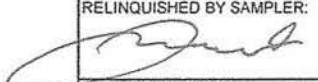
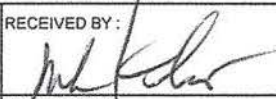
COC #: 2016-002

PAGE 2 OF 8

QA Review

DATE: 02/18/2014

391691

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2016-003																																																																																																																																																																																																																																																													
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Edith Kent Phone: 843-769-7376, ext. 4505 I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE:  SITE: <u>CIMARRON FACILITY</u>						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 Contact Person: Jeff Lux Phone: 405-642-5152 SAMPLE TYPE <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> SOLID SOIL OTHER </div> <div style="width: 45%;"> WATER "X" IF WATER PRESERV. FILTERED .45µ Y/N </div> </div>						ANALYSIS REQUESTED																																																																																																																																																																																																																																																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">SAMPLE</th> <th colspan="3">CONTAINER</th> <th colspan="2">SOIL</th> <th colspan="2">OTHER</th> <th colspan="2">WATER</th> <th colspan="2">Dissolved Uranium (EPA 200.8)</th> <th colspan="2">Nitrate/Nitrite (EPA 353.2)</th> <th colspan="2">Fluoride (EPA 300.0)</th> </tr> <tr> <th>ID</th> <th>DATE</th> <th>TIME</th> <th>NO.</th> <th>TYPE</th> <th>SIZE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>T-79</td><td>2/16/2016</td><td>1205</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-79DUP</td><td>2/16/2016</td><td>1205</td><td>1</td><td>P</td><td>250 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>HNO3</td><td>Y</td><td>X</td><td></td><td></td><td></td><td></td></tr> <tr><td>T-79DUP</td><td>2/16/2016</td><td>1205</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-96</td><td>2/16/2016</td><td>1230</td><td>1</td><td>P</td><td>250 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>HNO3</td><td>Y</td><td>X</td><td></td><td></td><td></td><td></td></tr> <tr><td>T-96</td><td>2/16/2016</td><td>1230</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-86</td><td>2/16/2016</td><td>1425</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-59</td><td>2/16/2016</td><td>1440</td><td>1</td><td>P</td><td>250 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>HNO3</td><td>Y</td><td>X</td><td></td><td></td><td></td><td></td></tr> <tr><td>T-59</td><td>2/16/2016</td><td>1440</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-88</td><td>2/16/2016</td><td>1450</td><td>1</td><td>P</td><td>250 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>HNO3</td><td>Y</td><td>X</td><td></td><td></td><td></td><td></td></tr> <tr><td>T-88</td><td>2/16/2016</td><td>1450</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> <tr><td>T-88DUP</td><td>2/16/2016</td><td>1450</td><td>1</td><td>P</td><td>250 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>HNO3</td><td>Y</td><td>X</td><td></td><td></td><td></td><td></td></tr> <tr><td>T-88DUP</td><td>2/16/2016</td><td>1450</td><td>1</td><td>P</td><td>125 mL</td><td></td><td></td><td></td><td></td><td>X</td><td>H2SO4</td><td>N</td><td></td><td>X</td><td></td><td></td><td></td></tr> </tbody> </table>						SAMPLE			CONTAINER			SOIL		OTHER		WATER		Dissolved Uranium (EPA 200.8)		Nitrate/Nitrite (EPA 353.2)		Fluoride (EPA 300.0)		ID	DATE	TIME	NO.	TYPE	SIZE													T-79	2/16/2016	1205	1	P	125 mL					X	H2SO4	N		X				T-79DUP	2/16/2016	1205	1	P	250 mL					X	HNO3	Y	X					T-79DUP	2/16/2016	1205	1	P	125 mL					X	H2SO4	N		X				T-96	2/16/2016	1230	1	P	250 mL					X	HNO3	Y	X					T-96	2/16/2016	1230	1	P	125 mL					X	H2SO4	N		X				T-86	2/16/2016	1425	1	P	125 mL					X	H2SO4	N		X				T-59	2/16/2016	1440	1	P	250 mL					X	HNO3	Y	X					T-59	2/16/2016	1440	1	P	125 mL					X	H2SO4	N		X				T-88	2/16/2016	1450	1	P	250 mL					X	HNO3	Y	X					T-88	2/16/2016	1450	1	P	125 mL					X	H2SO4	N		X				T-88DUP	2/16/2016	1450	1	P	250 mL					X	HNO3	Y	X					T-88DUP	2/16/2016	1450	1	P	125 mL					X	H2SO4	N		X				Potential Hazardous Characteristics <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>DF</u>					
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Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: <u>CM.RN</u>		SDG/AR/COC/Work Order: <u>391691, 391698, 391704</u>	
Received By: <u>MF</u>		Date Received: <u>2-19-16</u>	
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>gms</u>	
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?	
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>		
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.	
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>		

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 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>6°C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>130462961</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 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)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples have headspace as required?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials contain acid preservation?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If unknown, select No)
8 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
9 Are Encore containers present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
10 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
11 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
12 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
13 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
14 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air <input checked="" type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input type="checkbox"/> Courier <input type="checkbox"/> Other <input type="checkbox"/> <u>7756 8194 3380 16°C</u> <u>4137 6°C</u>

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials casDate 02/19/16Page 1 of 1

GL-CHL-SR-001 Rev 2

Laboratory Certification

List of current GEL Certifications as of 07 March 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
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 Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391691

Sample ID	Client ID
391691001	MWWA-03
391691002	MWWA-03DUP
391691003	MWWA-09
391691004	T-62
391691005	T-76
391691006	T-69
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391691010	T-79
391691011	T-79DUP
391691012	T-96
391691014	T-59
391691015	T-88
391691016	T-88DUP
1203493391	Method Blank (MB)
1203493392	Laboratory Control Sample (LCS)
1203493397	391691001(MWWA-03L) Serial Dilution (SD)
1203493398	391704002(1381L) Serial Dilution (SD)
1203493393	391691001(MWWA-03D) Sample Duplicate (DUP)
1203493394	391704002(1381D) Sample Duplicate (DUP)
1203493395	391691001(MWWA-03S) Matrix Spike (MS)
1203493396	391704002(1381S) Matrix Spike (MS)

Sample Analysis

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

Method/Analysis Information

Analytical Batch:	1546418
Prep Batch :	1546415
Standard Operating Procedures:	GL-MA-E-014 REV# 27 and GL-MA-E-016 REV# 15
Analytical Method:	EPA 200.8
Prep Method :	EPA 200.2

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The Metals analysis - ICPMS was performed on a PerkinElmer NexION 350X ICPMS. The instrument is equipped with a ESI PFA-ST nebulizer, quadrupole mass spectrometer, dual mode electron multiplier detector, and Kinetic Energy Discrimination (KED) technology. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum.

Calibration Information

Instrument Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL/PQL Requirements

The CRDL/PQL standard recoveries met the referenced advisory control limits.

ICSA/ICSAB Statement

All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Continuing Calibration Blanks (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 391691001 (MWWA-03) and 391704002 (1381).

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required reporting limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. The relative percent differences (RPD) between the sample and its duplicate (DUP) were within acceptable limits for all applicable analytes.

Serial Dilution % Difference Statement

All applicable analytes in the serial dilution (SDILT) demonstrated acceptable correlation to its associated sample and met the established acceptance percent difference criteria.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology. Holding time is measured by comparison of the date and time of sample collection to the date and time of sample preparation and analysis. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. Samples 391691001 (MWWA-03), 391691002 (MWWA-03DUP), 391691003 (MWWA-09), 391691004 (T-62) and 391691005 (T-76) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	391691				
	001	002	003	004	005
Uranium	10X	10X	10X	10X	10X

Preparation Information

The samples in this SDG were not diluted and prepared according to the cited SOP.

Miscellaneous Information

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

A data exception report was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

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: 391691 GEL Work Order: 391691

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
- 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: Nik-Cole Elmore

Date: 15 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-03
Sample ID: 391691001
Matrix: Water
Collect Date: 16-FEB-16 09:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		312	0.670	2.00	ug/L	10	BAJ	03/04/16	1159	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-03DUP
Sample ID: 391691002
Matrix: Water
Collect Date: 16-FEB-16 09:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		336	0.670	2.00	ug/L	10	BAJ	03/04/16	1206	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-09
Sample ID: 391691003
Matrix: Water
Collect Date: 16-FEB-16 10:00
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		156	0.670	2.00	ug/L	10	BAJ	03/04/16	1208	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-62
Sample ID: 391691004
Matrix: Water
Collect Date: 16-FEB-16 10:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		165	0.670	2.00	ug/L	10	BAJ	03/04/16	1209	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-76
Sample ID: 391691005
Matrix: Water
Collect Date: 16-FEB-16 10:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		154	0.670	2.00	ug/L	10	BAJ	03/04/16	1210	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-69
Sample ID: 391691006
Matrix: Water
Collect Date: 16-FEB-16 11:00
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		51.7	0.067	0.200	ug/L	1	BAJ	03/03/16	1859	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-77
Sample ID: 391691009
Matrix: Water
Collect Date: 16-FEB-16 11:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		55.1	0.067	0.200	ug/L	1	BAJ	03/03/16	1901	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-79
Sample ID: 391691010
Matrix: Water
Collect Date: 16-FEB-16 12:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		53.0	0.067	0.200	ug/L	1	BAJ	03/03/16	1904	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-79DUP
Sample ID: 391691011
Matrix: Water
Collect Date: 16-FEB-16 12:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		51.5	0.067	0.200	ug/L	1	BAJ	03/03/16	1906	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-96
Sample ID: 391691012
Matrix: Water
Collect Date: 16-FEB-16 12:30
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		31.5	0.067	0.200	ug/L	1	BAJ	03/03/16	1909	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-59
Sample ID: 391691014
Matrix: Water
Collect Date: 16-FEB-16 14:40
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		76.4	0.067	0.200	ug/L	1	BAJ	03/03/16	1912	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-88
Sample ID: 391691015
Matrix: Water
Collect Date: 16-FEB-16 14:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		8.08	0.067	0.200	ug/L	1	BAJ	03/03/16	1919	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-88DUP
Sample ID: 391691016
Matrix: Water
Collect Date: 16-FEB-16 14:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		8.27	0.067	0.200	ug/L	1	BAJ	03/03/16	1922	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 15, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391691

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	1546418										
QC1203493393	391691001	DUP									
Uranium		312		323	ug/L	3.57		(0%-20%)	BAJ	03/04/16	12:00
QC1203493394	391704002	DUP									
Uranium		75.7		75.9	ug/L	0.351		(0%-20%)		03/03/16	19:27
QC1203493392	LCS										
Uranium	50.0			50.8	ug/L		102	(85%-115%)		03/04/16	11:57
QC1203493391	MB										
Uranium			U	ND	ug/L					03/04/16	11:56
QC1203493395	391691001	MS									
Uranium	50.0	312		353	ug/L		N/A	(75%-125%)		03/04/16	12:01
QC1203493396	391704002	MS									
Uranium	50.0	75.7		127	ug/L		102	(75%-125%)		03/03/16	19:30
QC1203493397	391691001	SDILT									
Uranium		31.2		6.35	ug/L	1.87		(0%-10%)		03/04/16	12:02
QC1203493398	391704002	SDILT									
Uranium		75.7		15.1	ug/L	.0502		(0%-10%)		03/03/16	19:32

Notes:

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 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

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QC Summary

Workorder: 391691

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
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.

^ 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.

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391691**

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 1546601 **Method:** EPA300.0 Fluoride in Liquid

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
391691001	MWWA-03
391691002	MWWA-03DUP
391691003	MWWA-09
391691004	T-62
391691005	T-76
391691007	T-57
391691009	T-77
1203493961	Method Blank (MB)
1203493962	Laboratory Control Sample (LCS)
1203493963	391691001(MWWA-03) Sample Duplicate (DUP)
1203493964	391698017(1346) Sample Duplicate (DUP)
1203493965	391691001(MWWA-03) Post Spike (PS)
1203493966	391698017(1346) Post Spike (PS)
1203493967	391691001(MWWA-03) Post Spike Duplicate (PSD)
1203493968	391698017(1346) Post Spike Duplicate (PSD)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 25.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-5000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Samples 391691001 (MWWA-03) and 391698017 (1346) were selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits where applicable.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The following samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391691001 (MWWA-03) and 391691002 (MWWA-03DUP) were diluted because target analyte concentrations exceeded the calibration range. Samples 1203493964 (1346DUP), 1203493966 (1346PS) and 1203493968 (1346PSD) were diluted based on historical data.

Analyte	391691	
	001	002
Fluoride	5X	5X

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391691001 (MWWA-03), 391691002 (MWWA-03DUP), 391691003 (MWWA-09), 391691004 (T-62), 391691005 (T-76), 391691007 (T-57) and 391691009 (T-77) were manually integrated to correctly position the baseline as set in the calibration standards.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product:	Nitrate Nitrite by Cadmium Reduction	
Analytical Batch:	1546460	Method: EPA 353.2 Nitrogen, Nitrate/Nitrite

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 353.2:

Sample ID	Client ID
391691001	MWWA-03
391691002	MWWA-03DUP
391691003	MWWA-09
391691004	T-62
391691005	T-76
391691006	T-69
391691007	T-57
391691008	T-58
391691009	T-77
391691010	T-79
391691011	T-79DUP
391691012	T-96
391691013	T-86
391691014	T-59
391691015	T-88
391691016	T-88DUP
1203493522	Method Blank (MB)
1203493523	Laboratory Control Sample (LCS)
1203493524	391691001(MWWA-03) Sample Duplicate (DUP)
1203493527	391691001(MWWA-03) Post Spike (PS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-128 REV# 8.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Nutrient analysis was performed on a Lachat QuickChem FIA+ 8500 Series.

Calibration Verification Information

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Sample 391691001 (MWWA-03) was selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits where applicable.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following samples 391691003 (MWWA-09), 391691004 (T-62), 391691005 (T-76), 391691006 (T-69), 391691007 (T-57), 391691008 (T-58), 391691012 (T-96), 391691013 (T-86), 391691014 (T-59), 391691015 (T-88) and 391691016 (T-88DUP) were diluted because target analyte concentrations exceeded the calibration range.

Analyte	391691											
	003	004	005	006	007	008	012	013	014	015	016	
Several	50X	100X	25X	50X	100X	50X	50X	50X	100X	100X	100X	

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

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: 391691 GEL Work Order: 391691

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- H Analytical holding time was exceeded
- 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: Thomas Lewis

Date: 14 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-03
Sample ID: 391691001
Matrix: Water
Collect Date: 16-FEB-16 09:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		9.55	0.165	0.500	mg/L	5	RXB5	02/23/16	2230	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.123	0.017	0.050	mg/L	1	AXH3	02/22/16	1042	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-03DUP
Sample ID: 391691002
Matrix: Water
Collect Date: 16-FEB-16 09:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		9.62	0.165	0.500	mg/L	5	RXB5	02/24/16	0036	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.126	0.017	0.050	mg/L	1	AXH3	02/22/16	1046	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: MWWA-09
Sample ID: 391691003
Matrix: Water
Collect Date: 16-FEB-16 10:00
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		3.60	0.033	0.100	mg/L	1	RXB5	02/21/16	0638	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		30.0	0.850	2.50	mg/L	50	AXH3	02/22/16	1123	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-62
Sample ID: 391691004
Matrix: Water
Collect Date: 16-FEB-16 10:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		2.80	0.033	0.100	mg/L	1	RXB5	02/21/16	0709	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		78.7	1.70	5.00	mg/L	100	AXH3	02/22/16	1124	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-76
Sample ID: 391691005
Matrix: Water
Collect Date: 16-FEB-16 10:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		2.69	0.033	0.100	mg/L	1	RXB5	02/21/16	0741	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		24.4	0.425	1.25	mg/L	25	AXH3	02/22/16	1050	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-69
Sample ID: 391691006
Matrix: Water
Collect Date: 16-FEB-16 11:00
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		63.0	0.850	2.50	mg/L	50	AXH3	02/22/16	1051	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-57
Sample ID: 391691007
Matrix: Water
Collect Date: 16-FEB-16 11:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		4.12	0.033	0.100	mg/L	1	RXB5	02/21/16	0812	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		58.1	1.70	5.00	mg/L	100	AXH3	02/22/16	1130	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
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Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-58
Sample ID: 391691008
Matrix: Water
Collect Date: 16-FEB-16 11:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		34.1	0.850	2.50	mg/L	50	AXH3	02/22/16	1058	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-77
Sample ID: 391691009
Matrix: Water
Collect Date: 16-FEB-16 11:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		0.667	0.033	0.100	mg/L	1	RXB5	02/21/16	0843	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		1.45	0.017	0.050	mg/L	1	AXH3	02/22/16	1059	1546460	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-79
Sample ID: 391691010
Matrix: Water
Collect Date: 16-FEB-16 12:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.280	0.017	0.050	mg/L	1	AXH3	02/22/16	1100	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-79DUP
Sample ID: 391691011
Matrix: Water
Collect Date: 16-FEB-16 12:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.292	0.017	0.050	mg/L	1	AXH3	02/22/16	1101	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-96
Sample ID: 391691012
Matrix: Water
Collect Date: 16-FEB-16 12:30
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		17.8	0.850	2.50	mg/L	50	AXH3	02/22/16	1131	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-86
Sample ID: 391691013
Matrix: Water
Collect Date: 16-FEB-16 14:25
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		16.9	0.850	2.50	mg/L	50	AXH3	02/22/16	1132	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-59
Sample ID: 391691014
Matrix: Water
Collect Date: 16-FEB-16 14:40
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		103	1.70	5.00	mg/L	100	AXH3	02/22/16	1133	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-88
Sample ID: 391691015
Matrix: Water
Collect Date: 16-FEB-16 14:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		21.8	1.70	5.00	mg/L	100	AXH3	02/22/16	1135	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-88DUP
Sample ID: 391691016
Matrix: Water
Collect Date: 16-FEB-16 14:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		25.5	1.70	5.00	mg/L	100	AXH3	02/22/16	1136	1546460	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 14, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391691

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	1546601										
QC1203493963	391691001	DUP									
Fluoride			9.55	9.53	mg/L	0.215		(0%-20%)	RXB5	02/23/16	23:02
QC1203493964	391698017	DUP									
Fluoride			9.89	9.88	mg/L	0.0526		(0%-20%)		02/21/16	10:49
QC1203493962	LCS										
Fluoride	2.50			2.51	mg/L		100	(90%-110%)		02/21/16	02:26
QC1203493961	MB										
Fluoride			U	ND	mg/L					02/21/16	01:55
QC1203493965	391691001	PS									
Fluoride	2.50		1.91	4.43	mg/L		101	(90%-110%)		02/23/16	23:33
QC1203493966	391698017	PS									
Fluoride	2.50		2.47	5.11	mg/L		105	(90%-110%)		02/21/16	11:20
QC1203493967	391691001	PSD									
Fluoride	2.50		1.91	4.43	mg/L	0.0113	101	(0%-20%)		02/24/16	00:04
QC1203493968	391698017	PSD									
Fluoride	2.50		2.47	5.10	mg/L	0.0823	105	(0%-20%)		02/21/16	11:52
Nutrient Analysis											
Batch	1546460										
QC1203493524	391691001	DUP									
Nitrogen, Nitrate/Nitrite			0.123	0.123	mg/L	0 ^		(+/-0.050)	AXH3	02/22/16	10:44
QC1203493523	LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.06	mg/L		106	(90%-110%)		02/22/16	10:41
QC1203493522	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					02/22/16	10:40
QC1203493527	391691001	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.123	1.12	mg/L		99.7	(90%-110%)		02/22/16	10:45

Notes:

The Qualifiers in this report are defined as follows:

GEL LABORATORIES LLC

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QC Summary

Workorder: 391691

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<	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	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										
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.

March 07, 2016

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

Re: Cimarron February 2016 GWM
Work Order: 391698

Dear Mr. Lux:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 19, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4453.

Sincerely,

Chelsea Seagle
Chelsea Seagle for
Edith Kent
Project Manager

Purchase Order: tbd
Chain of Custody: 2016-004 and 2016-005
Enclosures



Table of Contents

Case Narrative.....	1
Chain of Custody and Supporting Documentation.....	4
Laboratory Certification.....	8
Metals Analysis.....	10
Case Narrative.....	11
Sample Data Summary.....	16
Quality Control Summary.....	33
General Chem Analysis.....	36
Case Narrative.....	37
Sample Data Summary.....	45
Quality Control Summary.....	52
Miscellaneous.....	55

Case Narrative

**CASE NARRATIVE
for
Burns & McDonnell
Cimarron February 2016 GWM
SDG:391698**

March 07, 2016

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 February 19, 2016 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:

<u>Laboratory ID</u>	<u>Client ID</u>
391698001	T-61
391698002	T-91
391698003	T-97
391698004	02W40
391698005	02W39
391698006	1315R
391698007	TWM-09
391698008	TWM-09DUP
391698009	02W01
391698010	02W32
391698011	02W08
391698012	02W44
391698013	1361
391698014	1365
391698015	TMW-24
391698016	1373
391698017	1346
391698018	1346DUP
391698019	1393


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.

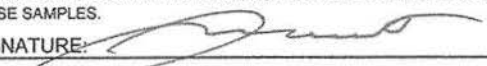
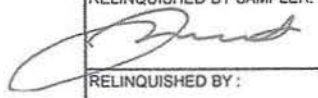
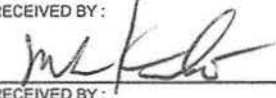

Chelsea Seagle for
Edith Kent
Project Manager

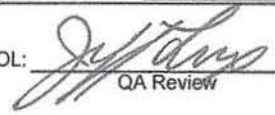
Chain of Custody and Supporting Documentation

PAGE 4 OF 8

DATE: 02/18/2016

391698

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2016-005																																																																																																																																																																																																																																																																					
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Edith Kent Phone: 843-769-7376, ext. 4505 I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES. SAMPLER SIGNATURE:  SITE: CIMAARRON FACILITY						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED																																																																																																																																																																																																																																																																			
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DOCUMENT CONTROL:  QA Review

DATE: 02/18/2016



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: <u>CM: RN</u>		SDG/AR/COC/Work Order: <u>3911091, 3911098, 391104</u>
Received By: <u>MP</u>		Date Received: <u>2-19-16</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>gmo</u>
Classified Radioactive II or III by RSO?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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 type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>6°C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>130462861</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples have headspace as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials contain acid preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If unknown, select No)
8 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
9 Are Encore containers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
10 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
11 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
12 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
13 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
14 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>7756 8194 3380 16°C</u> <u>4137 6°C</u>

Comments (Use Continuation Form if needed):

Laboratory Certification

List of current GEL Certifications as of 07 March 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
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 Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391698

Sample ID	Client ID
391698001	T-61
391698003	T-97
391698004	02W40
391698005	02W39
391698006	1315R
391698007	TWM-09
391698008	TWM-09DUP
391698009	02W01
391698010	02W32
391698011	02W08
391698012	02W44
391698013	1361
391698014	1365
391698015	TMW-24
391698016	1373
391698019	1393
1203493408	Method Blank (MB)
1203493409	Laboratory Control Sample (LCS)
1203493414	391698001(T-61L) Serial Dilution (SD)
1203493415	391698010(02W32L) Serial Dilution (SD)
1203493410	391698001(T-61D) Sample Duplicate (DUP)
1203493411	391698010(02W32D) Sample Duplicate (DUP)
1203493412	391698001(T-61S) Matrix Spike (MS)
1203493413	391698010(02W32S) Matrix Spike (MS)

Sample Analysis

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

Method/Analysis Information

Analytical Batch:	1546425
Prep Batch :	1546424
Standard Operating Procedures:	GL-MA-E-014 REV# 27 and GL-MA-E-016 REV# 15
Analytical Method:	EPA 200.8
Prep Method :	EPA 200.2

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The Metals analysis - ICPMS was performed on a PerkinElmer NexION 350X ICPMS. The instrument is equipped with a ESI PFA-ST nebulizer, quadrupole mass spectrometer, dual mode electron multiplier detector, and Kinetic Energy Discrimination (KED) technology. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum.

Calibration Information

Instrument Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL/PQL Requirements

The CRDL/PQL standard recoveries met the referenced advisory control limits.

ICSA/ICSAB Statement

All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Continuing Calibration Blanks (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 391698001 (T-61) and 391698010 (02W32).

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required reporting limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. The relative percent differences (RPD) between the sample and its duplicate (DUP) were within acceptable limits for all applicable analytes.

Serial Dilution % Difference Statement

All applicable analytes in the serial dilution (SDILT) demonstrated acceptable correlation to its associated sample and met the established acceptance percent difference criteria.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology. Holding time is measured by comparison of the date and time of sample collection to the date and time of sample preparation and analysis. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. Samples 391698004 (02W40), 391698005 (02W39), 391698006 (1315R), 391698007 (TWM-09), 391698008 (TWM-09DUP), 391698009 (02W01), 391698010 (02W32), 391698011 (02W08), 391698012 (02W44) and 391698014 (1365) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	391698									
	004	005	006	007	008	009	010	011	012	014
Uranium	100X	10X	100X	100X	100X	100X	10X	10X	10X	10X

Preparation Information

The samples in this SDG were not diluted and prepared according to the cited SOP.

Miscellaneous Information

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

A data exception report was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

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: 391698 GEL Work Order: 391698

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: Nik-Cole Elmore

Date: 15 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-61
Sample ID: 391698001
Matrix: Water
Collect Date: 16-FEB-16 15:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		25.6	0.067	0.200	ug/L	1	BAJ	03/04/16	1219	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-97
Sample ID: 391698003
Matrix: Water
Collect Date: 16-FEB-16 15:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		57.7	0.067	0.200	ug/L	1	BAJ	03/04/16	1224	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W40
Sample ID: 391698004
Matrix: Water
Collect Date: 17-FEB-16 09:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		1120	6.70	20.0	ug/L	100	BAJ	03/04/16	1225	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W39
Sample ID: 391698005
Matrix: Water
Collect Date: 17-FEB-16 09:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		600	0.670	2.00	ug/L	10	BAJ	03/04/16	1230	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1315R
Sample ID: 391698006
Matrix: Water
Collect Date: 17-FEB-16 09:55
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		1190	6.70	20.0	ug/L	100	BAJ	03/04/16	1231	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: TWM-09
Sample ID: 391698007
Matrix: Water
Collect Date: 17-FEB-16 10:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		2620	6.70	20.0	ug/L	100	BAJ	03/04/16	1232	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: TWM-09DUP
Sample ID: 391698008
Matrix: Water
Collect Date: 17-FEB-16 10:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		2500	6.70	20.0	ug/L	100	BAJ	03/04/16	1233	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W01
Sample ID: 391698009
Matrix: Water
Collect Date: 17-FEB-16 10:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		2370	6.70	20.0	ug/L	100	BAJ	03/04/16	1235	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W32
Sample ID: 391698010
Matrix: Water
Collect Date: 17-FEB-16 10:55
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		283	0.670	2.00	ug/L	10	BAJ	03/04/16	1236	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W08
Sample ID: 391698011
Matrix: Water
Collect Date: 17-FEB-16 11:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		400	0.670	2.00	ug/L	10	BAJ	03/04/16	1245	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 02W44
Sample ID: 391698012
Matrix: Water
Collect Date: 17-FEB-16 11:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		447	0.670	2.00	ug/L	10	BAJ	03/04/16	1246	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1361
Sample ID: 391698013
Matrix: Water
Collect Date: 17-FEB-16 11:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		83.6	0.067	0.200	ug/L	1	BAJ	03/04/16	1247	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1365
Sample ID: 391698014
Matrix: Water
Collect Date: 17-FEB-16 11:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		116	0.670	2.00	ug/L	10	BAJ	03/04/16	1249	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: TMW-24
Sample ID: 391698015
Matrix: Water
Collect Date: 17-FEB-16 12:00
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		80.4	0.067	0.200	ug/L	1	BAJ	03/04/16	1250	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1373
Sample ID: 391698016
Matrix: Water
Collect Date: 17-FEB-16 12:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		57.5	0.067	0.200	ug/L	1	BAJ	03/04/16	1251	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1393
Sample ID: 391698019
Matrix: Water
Collect Date: 17-FEB-16 14:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		13.5	0.067	0.200	ug/L	1	BAJ	03/04/16	1252	1546425	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546424

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 15, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391698

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	1546425										
QC1203493410	391698001	DUP									
Uranium		25.6		26.1	ug/L	2.23		(0%-20%)	BAJ	03/04/16	12:20
QC1203493411	391698010	DUP									
Uranium		283		275	ug/L	2.79		(0%-20%)		03/04/16	12:37
QC1203493409	LCS										
Uranium	50.0			50.2	ug/L		100	(85%-115%)		03/04/16	12:18
QC1203493408	MB										
Uranium			U	ND	ug/L					03/04/16	12:16
QC1203493412	391698001	MS									
Uranium	50.0	25.6		76.1	ug/L		101	(75%-125%)		03/04/16	12:21
QC1203493413	391698010	MS									
Uranium	50.0	283		336	ug/L		N/A	(75%-125%)		03/04/16	12:38
QC1203493414	391698001	SDILT									
Uranium		25.6		5.33	ug/L	4.18		(0%-10%)		03/04/16	12:23
QC1203493415	391698010	SDILT									
Uranium		28.3		5.63	ug/L	.533		(0%-10%)		03/04/16	12:40

Notes:

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 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

GEL LABORATORIES LLC

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QC Summary

Workorder: 391698

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
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.

^ 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.

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391698**

Method/Analysis Information

Product: Ion Chromatography

Analytical Batch: 1546601

Method: EPA300.0 Fluoride in Liquid

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
391698017	1346
391698018	1346DUP
1203493961	Method Blank (MB)
1203493962	Laboratory Control Sample (LCS)
1203493963	391691001(MWWA-03) Sample Duplicate (DUP)
1203493964	391698017(1346) Sample Duplicate (DUP)
1203493965	391691001(MWWA-03) Post Spike (PS)
1203493966	391698017(1346) Post Spike (PS)
1203493967	391691001(MWWA-03) Post Spike Duplicate (PSD)
1203493968	391698017(1346) Post Spike Duplicate (PSD)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 25.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-5000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Samples 391691001 (MWWA-03) and 391698017 (1346) were selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits where applicable.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The following samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391698017 (1346) and 391698018 (1346DUP) were diluted because target analyte concentrations exceeded the calibration range. Samples 1203493964 (1346DUP), 1203493966 (1346PS), 1203493968 (1346PSD), 391698017 (1346) and 391698018 (1346DUP) were diluted based on historical data.

Analyte	391698	
	017	018
Fluoride	4X	4X

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391698017 (1346) and 391698018 (1346DUP) were manually integrated to correctly position the baseline as set in the calibration standards.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product:	Nitrate Nitrite by Cadmium Reduction	
Analytical Batch:	1546807	Method: EPA 353.2 Nitrogen, Nitrate/Nitrite

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 353.2:

Sample ID	Client ID
391698001	T-61
391698002	T-91
391698003	T-97
391698017	1346
391698018	1346DUP
391698019	1393
1203494445	Method Blank (MB)
1203494446	Laboratory Control Sample (LCS)
1203494447	391698001(T-61) Sample Duplicate (DUP)
1203494448	391698002(T-91) Sample Duplicate (DUP)
1203494449	391698001(T-61) Post Spike (PS)
1203494450	391698002(T-91) Post Spike (PS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-128 REV# 8.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Nutrient analysis was performed on a Lachat QuickChem FIA+ 8500 Series.

Calibration Verification Information

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Samples 391698001 (T-61) and 391698002 (T-91) were selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrogen, Nitrate/Nitrite	1203494450 (T-91PS)	113* (90%-110%)

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following samples 1203494447 (T-61DUP), 1203494448 (T-91DUP), 1203494449 (T-61PS), 1203494450 (T-91PS), 391698001 (T-61), 391698002 (T-91), 391698003 (T-97), 391698017 (1346), 391698018 (1346DUP) and 391698019 (1393) were diluted because target analyte concentrations exceeded the calibration range.

Analyte	391698					
	001	002	003	017	018	019
Nitrogen, Nitrate/Nitrite	25X	25X	5X	500X	500X	50X

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A data exception report (DER) 1495027 was generated for sample 1203494450 (T-91PS) in this SDG/batch.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

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: 391698 GEL Work Order: 391698

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- H Analytical holding time was exceeded
- 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: Thomas Lewis

Date: 14 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-61
Sample ID: 391698001
Matrix: Water
Collect Date: 16-FEB-16 15:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		37.0	0.425	1.25	mg/L	25	AXH3	02/22/16	1425	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-91
Sample ID: 391698002
Matrix: Water
Collect Date: 16-FEB-16 15:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		20.1	0.425	1.25	mg/L	25	AXH3	02/22/16	1434	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-97
Sample ID: 391698003
Matrix: Water
Collect Date: 16-FEB-16 15:35
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		4.28	0.085	0.250	mg/L	5	AXH3	02/22/16	1437	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1346
Sample ID: 391698017
Matrix: Water
Collect Date: 17-FEB-16 13:55
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		9.89	0.132	0.400	mg/L	4	RXB5	02/21/16	1018	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		397	8.50	25.0	mg/L	500	AXH3	02/22/16	1507	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1346DUP
Sample ID: 391698018
Matrix: Water
Collect Date: 17-FEB-16 13:55
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		10.0	0.132	0.400	mg/L	4	RXB5	02/21/16	1223	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		417	8.50	25.0	mg/L	500	AXH3	02/22/16	1508	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1393
Sample ID: 391698019
Matrix: Water
Collect Date: 17-FEB-16 14:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		44.3	0.850	2.50	mg/L	50	AXH3	02/22/16	1441	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 14, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391698

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	1546601										
QC1203493963	391691001	DUP									
Fluoride			9.55	9.53	mg/L	0.215		(0%-20%)	RXB5	02/23/16	23:02
QC1203493964	391698017	DUP									
Fluoride			9.89	9.88	mg/L	0.0526		(0%-20%)		02/21/16	10:49
QC1203493962	LCS										
Fluoride	2.50			2.51	mg/L		100	(90%-110%)		02/21/16	02:26
QC1203493961	MB										
Fluoride			U	ND	mg/L					02/21/16	01:55
QC1203493965	391691001	PS									
Fluoride	2.50		1.91	4.43	mg/L		101	(90%-110%)		02/23/16	23:33
QC1203493966	391698017	PS									
Fluoride	2.50		2.47	5.11	mg/L		105	(90%-110%)		02/21/16	11:20
QC1203493967	391691001	PSD									
Fluoride	2.50		1.91	4.43	mg/L	0.0113	101	(0%-20%)		02/24/16	00:04
QC1203493968	391698017	PSD									
Fluoride	2.50		2.47	5.10	mg/L	0.0823	105	(0%-20%)		02/21/16	11:52
Nutrient Analysis											
Batch	1546807										
QC1203494447	391698001	DUP									
Nitrogen, Nitrate/Nitrite			37.0	37.5	mg/L	1.34		(0%-20%)	AXH3	02/22/16	14:27
QC1203494448	391698002	DUP									
Nitrogen, Nitrate/Nitrite			20.1	18.7	mg/L	7.35		(0%-20%)		02/22/16	14:35
QC1203494446	LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.05	mg/L		105	(90%-110%)		02/22/16	14:24
QC1203494445	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					02/22/16	14:23
QC1203494449	391698001	PS									
Nitrogen, Nitrate/Nitrite	1.00		1.48	2.53	mg/L		105	(90%-110%)		02/22/16	14:33
QC1203494450	391698002	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.804	1.93	mg/L		113 *	(90%-110%)		02/22/16	14:36

GEL LABORATORIES LLC

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

QC Summary

Workorder: 391698

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Nutrient Analysis

Batch 1546807

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 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
- 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.

Miscellaneous

DATA EXCEPTION REPORT			
Mo.Day Yr. 22-FEB-16	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LACHAT Flow Injection Analyzer	Test / Method: EPA 353.2	Matrix Type: Liquid	Client Code: CMRN
Batch ID: 1546807	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 391698,391704 Application Issues: Failed Recovery for MS/MSD, or PS/PSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. Failed Recovery for MS/MSD, or PS/PSD: QC 1203494450PS		1. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity. Nitrogen, Nitrate/Nitrite 1203494450 (T-91PS) [113* (90%-110%)].	

Originator's Name:
Aubrey Kingsbury 23-FEB-16

Data Validator/Group Leader:
Kristen Mizzell 23-FEB-16

March 16, 2016

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

Re: Cimarron February 2016 GWM
Work Order: 391704

Dear Mr. Lux:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 19, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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. 4453.

Sincerely,

Chelsea Seagle
Chelsea Seagle for
Edith Kent
Project Manager

Purchase Order: tbd
Chain of Custody: 2016-006, 2016-007 and 2016-008
Enclosures



Table of Contents

Case Narrative.....	1
Chain of Custody and Supporting Documentation.....	4
Laboratory Certification.....	9
Metals Analysis.....	11
Case Narrative.....	12
Sample Data Summary.....	17
Quality Control Summary.....	24
General Chem Analysis.....	27
Case Narrative.....	28
Sample Data Summary.....	36
Quality Control Summary.....	51
Miscellaneous.....	54
Radiological Analysis.....	56
Case Narrative.....	57
Sample Data Summary.....	61
Quality Control Summary.....	64

Case Narrative

**CASE NARRATIVE
for
Burns & McDonnell
Cimarron February 2016 GWM
SDG:391704**

March 16, 2016

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 February 19, 2016 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:

<u>Laboratory ID</u>	<u>Client ID</u>
391704001	1393
391704002	1381
391704003	1385
391704004	1387
391704005	1313
391704006	1312
391704007	1352
391704008	1356
391704009	1348
391704010	1319B-1
391704011	1319B-3
391704012	1331
391704013	1377
391704014	T-54
391704015	T-99
391704016	T-100

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, Metals

and Radiochemistry.

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


Chelsea Seagle for
Edith Kent
Project Manager

Chain of Custody and Supporting Documentation

391704

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST										COC #: 2016-006																																																																																																																																																																																																																																																																																									
SHIP TO: Company Name: GEL Laboratories LLC Address: 2040 Savage Road Address: Charleston, SC 29407 Contact Person: Edith Kent Phone: 843-769-7376, ext. 4505						SHIP FROM: Environmental Properties Management 100 N. Hwy 74 Guthrie, OK 73044 Contact Person: Jeff Lux Phone: 405-642-5152						ANALYSIS REQUESTED																																																																																																																																																																																																																																																																																							
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I ATTEST THAT THE PROPER FIELD SAMPLING PROCEDURES WERE USED DURING THE COLLECTION OF THESE SAMPLES.						SAMPLE TYPE <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" rowspan="2">SOLID</th> <th colspan="3">WATER</th> </tr> <tr> <th>"X" IF WATER</th> <th>PRESERV.</th> <th>FILTERED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>45µ Y/N</td> </tr> </tbody> </table>						SOLID		WATER			"X" IF WATER	PRESERV.	FILTERED					45µ Y/N	SAMPLER SIGNATURE:																																																																																																																																																																																																																																																																										
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PAGE 7 OF 8

DOCUMENT CONTROL:

QA Review

DATE: 02/18/2016

PAGE 8 OF 8

QA Review

DATE: 02/18/2016



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: <u>CM RN</u>		SDG/AR/COC/Work Order: <u>391691, 391698, 391704</u>
Received By: <u>MF</u>		Date Received: <u>2-19-16</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>gmo</u>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>	

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 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Ice bags</u> Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>6°C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>132462961</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 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)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples have headspace as required?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials contain acid preservation?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If unknown, select No)
8 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
9 Are Encore containers present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
10 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
11 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
12 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
13 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
14 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>7756 8194 3380 16°C</u> <u>4137 6°C</u>

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials casDate 02/19/16Page 1 of 1

GL-CHL-SR-001 Rev 2

Laboratory Certification

List of current GEL Certifications as of 16 March 2016

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
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 Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122016-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-16-11
Utah NELAP	SC000122016-20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391704

Sample ID	Client ID
391704002	1381
391704007	1352
391704008	1356
391704009	1348
391704012	1331
391704015	T-99
1203493391	Method Blank (MB)
1203493392	Laboratory Control Sample (LCS)
1203493398	391704002(1381L) Serial Dilution (SD)
1203493394	391704002(1381D) Sample Duplicate (DUP)
1203493396	391704002(1381S) Matrix Spike (MS)

Sample Analysis

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

Method/Analysis Information

Analytical Batch:	1546418
Prep Batch :	1546415
Standard Operating Procedures:	GL-MA-E-014 REV# 27 and GL-MA-E-016 REV# 15
Analytical Method:	EPA 200.8
Prep Method :	EPA 200.2

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The Metals analysis - ICPMS was performed on a PerkinElmer NexION 350X ICPMS. The instrument is equipped with a ESI PFA-ST nebulizer, quadrupole mass spectrometer, dual mode electron multiplier detector, and Kinetic Energy Discrimination (KED) technology. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum.

Calibration Information

Instrument Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL/PQL Requirements

The CRDL/PQL standard recoveries met the referenced advisory control limits.

ICSA/ICSAB Statement

All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Continuing Calibration Blanks (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following sample was selected as the quality control (QC) sample for this SDG: 391704002 (1381).

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required reporting limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. The relative percent differences (RPD) between the sample and its duplicate (DUP) were within acceptable limits for all applicable analytes.

Serial Dilution % Difference Statement

All applicable analytes in the serial dilution (SDILT) demonstrated acceptable correlation to its associated sample and met the established acceptance percent difference criteria.

Technical Information**Holding Time Specifications**

GEL assigns holding times based on the associated methodology. Holding time is measured by comparison of the date and time of sample collection to the date and time of sample preparation and analysis. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. Samples 391704007 (1352) and 391704008 (1356) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	391704	
	007	008
Uranium	10X	10X

Preparation Information

The samples in this SDG were not diluted and prepared according to the cited SOP.

Miscellaneous Information

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

A data exception report was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

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: 391704 GEL Work Order: 391704

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
- 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: Nik-Cole Elmore

Date: 15 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1381
Sample ID: 391704002
Matrix: Water
Collect Date: 17-FEB-16 14:30
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		75.7	0.067	0.200	ug/L	1	BAJ	03/03/16	1925	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1352
Sample ID: 391704007
Matrix: Water
Collect Date: 18-FEB-16 10:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		149	0.670	2.00	ug/L	10	BAJ	03/04/16	1211	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1356
Sample ID: 391704008
Matrix: Water
Collect Date: 18-FEB-16 10:25
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		258	0.670	2.00	ug/L	10	BAJ	03/04/16	1213	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1348
Sample ID: 391704009
Matrix: Water
Collect Date: 18-FEB-16 10:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		67.0	0.067	0.200	ug/L	1	BAJ	03/03/16	1945	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1331
Sample ID: 391704012
Matrix: Water
Collect Date: 18-FEB-16 12:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		22.1	0.067	0.200	ug/L	1	BAJ	03/03/16	1948	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

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Certificate of Analysis

Report Date: March 15, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-99
Sample ID: 391704015
Matrix: Water
Collect Date: 18-FEB-16 14:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS											
200.2/200.8 Dissolved Uranium "As Received"											
Uranium		36.8	0.067	0.200	ug/L	1	BAJ	03/03/16	1950	1546418	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JP1	02/19/16	1730	1546415

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 200.8	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 15, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391704

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	1546418										
QC1203493394	391704002	DUP									
Uranium		75.7		75.9	ug/L	0.351		(0%-20%)	BAJ	03/03/16	19:27
QC1203493392	LCS										
Uranium	50.0			50.8	ug/L		102	(85%-115%)		03/04/16	11:57
QC1203493391	MB										
Uranium			U	ND	ug/L					03/04/16	11:56
QC1203493396	391704002	MS									
Uranium	50.0	75.7		127	ug/L		102	(75%-125%)		03/03/16	19:30
QC1203493398	391704002	SDILT									
Uranium		75.7		15.1	ug/L	.0502		(0%-10%)		03/03/16	19:32

Notes:

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 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.

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QC Summary

Workorder: 391704

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
----------	-----	--------	------	----	-------	--------	------	-------	-------	------	------

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.

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391704**

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 1546601 **Method:** EPA300.0 Fluoride in Liquid

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
391704001	1393
391704003	1385
391704004	1387
391704005	1313
391704006	1312
391704009	1348
1203493961	Method Blank (MB)
1203493962	Laboratory Control Sample (LCS)
1203493963	391691001(MWWA-03) Sample Duplicate (DUP)
1203493964	391698017(1346) Sample Duplicate (DUP)
1203493965	391691001(MWWA-03) Post Spike (PS)
1203493966	391698017(1346) Post Spike (PS)
1203493967	391691001(MWWA-03) Post Spike Duplicate (PSD)
1203493968	391698017(1346) Post Spike Duplicate (PSD)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 25.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-5000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Samples 391691001 (MWWA-03) and 391698017 (1346) were selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits where applicable.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The following samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391704001 (1393), 391704003 (1385), 391704004 (1387), 391704005 (1313), 391704006 (1312) and 391704009 (1348) were diluted because target analyte concentrations exceeded the calibration range. Samples 1203493964 (1346DUP), 1203493966 (1346PS), 1203493968 (1346PSD), 391704001 (1393), 391704003 (1385), 391704004 (1387), 391704005 (1313), 391704006 (1312) and 391704009 (1348) were diluted based on historical data.

Analyte	391704					
	001	003	004	005	006	009
Fluoride	4X	2X	5X	20X	5X	2X

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Samples 1203493963 (MWWA-03DUP), 1203493964 (1346DUP), 1203493965 (MWWA-03PS), 1203493966 (1346PS), 1203493967 (MWWA-03PSD), 1203493968 (1346PSD), 391704004 (1387) and 391704009 (1348) were manually integrated to correctly position the baseline as set in the calibration standards.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product:	Nitrate Nitrite by Cadmium Reduction	
Analytical Batch:	1546807	Method: EPA 353.2 Nitrogen, Nitrate/Nitrite

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 353.2:

Sample ID	Client ID
391704002	1381
391704003	1385
391704004	1387
391704005	1313
391704006	1312
391704007	1352
391704008	1356
391704009	1348
391704010	1319B-1
391704011	1319B-3
391704014	T-54
391704015	T-99
391704016	T-100
1203494445	Method Blank (MB)
1203494446	Laboratory Control Sample (LCS)
1203494447	391698001(T-61) Sample Duplicate (DUP)
1203494448	391698002(T-91) Sample Duplicate (DUP)
1203494449	391698001(T-61) Post Spike (PS)
1203494450	391698002(T-91) Post Spike (PS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-128 REV# 8.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Nutrient analysis was performed on a Lachat QuickChem FIA+ 8500 Series.

Calibration Verification Information

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

Samples 391698001 (T-61) and 391698002 (T-91) were selected for QC analysis.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrogen, Nitrate/Nitrite	1203494450 (T-91PS)	113* (90%-110%)

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following samples 1203494447 (T-61DUP), 1203494448 (T-91DUP), 1203494449 (T-61PS), 1203494450 (T-91PS), 391704002 (1381), 391704003 (1385), 391704004 (1387), 391704005 (1313), 391704006 (1312), 391704007 (1352), 391704008 (1356), 391704009 (1348), 391704010 (1319B-1), 391704011 (1319B-3), 391704014 (T-54), 391704015 (T-99) and 391704016 (T-100) were diluted because target analyte concentrations exceeded the calibration range.

Analyte	391704													
	002	003	004	005	006	007	008	009	010	011	014	015	016	
Several	500X	1000X	100X	200X	500X	50X	10X	10X	50X	125X	500X	50X	25X	

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A data exception report (DER) 1495027 was generated for sample 1203494450 (T-91PS) in this SDG/batch.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

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

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Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 391704 GEL Work Order: 391704

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- H Analytical holding time was exceeded
- 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: Thomas Lewis

Date: 14 MAR 2016

Title: Data Validator

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1393
Sample ID: 391704001
Matrix: Water
Collect Date: 17-FEB-16 14:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		3.92	0.132	0.400	mg/L	4	RXB5	02/21/16	1255	1546601	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1381
Sample ID: 391704002
Matrix: Water
Collect Date: 17-FEB-16 14:30
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		685	8.50	25.0	mg/L	500	AXH3	02/22/16	1442	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1385
Sample ID: 391704003
Matrix: Water
Collect Date: 17-FEB-16 14:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		4.92	0.066	0.200	mg/L	2	RXB5	02/21/16	1429	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		954	17.0	50.0	mg/L	1000	AXH3	02/22/16	1509	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1387
Sample ID: 391704004
Matrix: Water
Collect Date: 17-FEB-16 15:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		6.19	0.165	0.500	mg/L	5	RXB5	02/21/16	1500	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		56.3	1.70	5.00	mg/L	100	AXH3	02/22/16	1449	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1313
Sample ID: 391704005
Matrix: Water
Collect Date: 17-FEB-16 15:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		47.5	0.660	2.00	mg/L	20	RXB5	02/21/16	1532	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		119	3.40	10.0	mg/L	200	AXH3	02/22/16	1511	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1312
Sample ID: 391704006
Matrix: Water
Collect Date: 18-FEB-16 09:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		7.92	0.165	0.500	mg/L	5	RXB5	02/21/16	1603	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		361	8.50	25.0	mg/L	500	AXH3	02/22/16	1512	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1352
Sample ID: 391704007
Matrix: Water
Collect Date: 18-FEB-16 10:05
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		59.0	0.850	2.50	mg/L	50	AXH3	02/22/16	1453	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1356
Sample ID: 391704008
Matrix: Water
Collect Date: 18-FEB-16 10:25
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		9.89	0.170	0.500	mg/L	10	AXH3	02/22/16	1513	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1348
Sample ID: 391704009
Matrix: Water
Collect Date: 18-FEB-16 10:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
EPA300.0 Fluoride in Liquid "As Received"											
Fluoride		7.78	0.066	0.200	mg/L	2	RXB5	02/21/16	1635	1546601	1
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		11.3	0.170	0.500	mg/L	10	AXH3	02/22/16	1455	1546807	2
The following Analytical Methods were performed:											
Method	Description					Analyst Comments					
1	EPA 300.0										
2	EPA 353.2										

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1319B-1
Sample ID: 391704010
Matrix: Water
Collect Date: 18-FEB-16 11:20
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		46.3	0.850	2.50	mg/L	50	AXH3	02/22/16	1514	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: 1319B-3
Sample ID: 391704011
Matrix: Water
Collect Date: 18-FEB-16 11:50
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		61.0	2.13	6.25	mg/L	125	AXH3	02/22/16	1515	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-54
Sample ID: 391704014
Matrix: Water
Collect Date: 18-FEB-16 13:45
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		195	8.50	25.0	mg/L	500	AXH3	02/22/16	1517	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-99
Sample ID: 391704015
Matrix: Water
Collect Date: 18-FEB-16 14:10
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		36.8	0.850	2.50	mg/L	50	AXH3	02/22/16	1523	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

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Certificate of Analysis

Report Date: March 14, 2016

Company : Environmental Properties Management, LLC
Address : 615 N. Hudson
Suite 200
Oklahoma City, Oklahoma 73102
Contact: Mr. Jeff Lux
Project: Cimarron February 2016 GWM

Client Sample ID: T-100
Sample ID: 391704016
Matrix: Water
Collect Date: 18-FEB-16 14:30
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		32.3	0.425	1.25	mg/L	25	AXH3	02/22/16	1506	1546807	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	

Notes:

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 14, 2016

Page 1 of 2

Environmental Properties Management, LLC

615 N. Hudson

Suite 200

Oklahoma City, Oklahoma

Contact: Mr. Jeff Lux

Workorder: 391704

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	1546601										
QC1203493963	391691001	DUP									
Fluoride			9.55	9.53	mg/L	0.215		(0%-20%)	RXB5	02/23/16	23:02
QC1203493964	391698017	DUP									
Fluoride			9.89	9.88	mg/L	0.0526		(0%-20%)		02/21/16	10:49
QC1203493962	LCS										
Fluoride	2.50			2.51	mg/L		100	(90%-110%)		02/21/16	02:26
QC1203493961	MB										
Fluoride			U	ND	mg/L					02/21/16	01:55
QC1203493965	391691001	PS									
Fluoride	2.50		1.91	4.43	mg/L		101	(90%-110%)		02/23/16	23:33
QC1203493966	391698017	PS									
Fluoride	2.50		2.47	5.11	mg/L		105	(90%-110%)		02/21/16	11:20
QC1203493967	391691001	PSD									
Fluoride	2.50		1.91	4.43	mg/L	0.0113	101	(0%-20%)		02/24/16	00:04
QC1203493968	391698017	PSD									
Fluoride	2.50		2.47	5.10	mg/L	0.0823	105	(0%-20%)		02/21/16	11:52
Nutrient Analysis											
Batch	1546807										
QC1203494447	391698001	DUP									
Nitrogen, Nitrate/Nitrite			37.0	37.5	mg/L	1.34		(0%-20%)	AXH3	02/22/16	14:27
QC1203494448	391698002	DUP									
Nitrogen, Nitrate/Nitrite			20.1	18.7	mg/L	7.35		(0%-20%)		02/22/16	14:35
QC1203494446	LCS										
Nitrogen, Nitrate/Nitrite	1.00			1.05	mg/L		105	(90%-110%)		02/22/16	14:24
QC1203494445	MB										
Nitrogen, Nitrate/Nitrite			U	ND	mg/L					02/22/16	14:23
QC1203494449	391698001	PS									
Nitrogen, Nitrate/Nitrite	1.00		1.48	2.53	mg/L		105	(90%-110%)		02/22/16	14:33
QC1203494450	391698002	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.804	1.93	mg/L		113 *	(90%-110%)		02/22/16	14:36

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QC Summary

Workorder: 391704

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Nutrient Analysis

Batch 1546807

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 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
- 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.

Miscellaneous

DATA EXCEPTION REPORT			
Mo.Day Yr. 22-FEB-16	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LACHAT Flow Injection Analyzer	Test / Method: EPA 353.2	Matrix Type: Liquid	Client Code: CMRN
Batch ID: 1546807	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 391698,391704 Application Issues: Failed Recovery for MS/MSD, or PS/PSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. Failed Recovery for MS/MSD, or PS/PSD: QC 1203494450PS		1. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity. Nitrogen, Nitrate/Nitrite 1203494450 (T-91PS) [113* (90%-110%)].	

Originator's Name:
Aubrey Kingsbury 23-FEB-16

Data Validator/Group Leader:
Kristen Mizzell 23-FEB-16

Radiological Analysis

Case Narrative

**Radiochemistry
Technical Case Narrative
Burns & McDonnell (CMRN)
SDG #: 391704**

Method/Analysis Information

Product: Alphaspec Pu, Liquid
Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
Analytical Batch Number: 1547835

Sample ID	Client ID
391704012	1331
391704013	1377
1203497032	Method Blank (MB)
1203497035	Laboratory Control Sample (LCS)
1203497033	391704012(1331) Sample Duplicate (DUP)
1203497034	391704012(1331) Matrix Spike (MS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 26.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

QC Information

All of the QC samples met the required acceptance limits.

Designated QC

The following sample was used for QC: 391704012 (1331).

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Recounts

None of the samples in this sample set were recounted.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments

Additional comments were not required for this sample set.

Qualifier Information

Manual qualifiers were not required.

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

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Qualifier Definition Report for

CMRN001 Burns & McDonnell

Client SDG: 391704 GEL Work Order: 391704

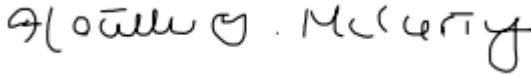
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- 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: Heather McCarty

Date: 16 MAR 2016

Title: Analyst II

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: Cimarron February 2016 GWM

Report Date: March 16, 2016

Client Sample ID: 1331
Sample ID: 391704012
Matrix: Water
Collect Date: 18-FEB-16
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis													
<i>Alphaspec Pu, Liquid "As Received"</i>													
Plutonium-238	U	-0.0132	+/-0.197	0.461	+/-0.198	1.00	pCi/L		JXE2	03/07/16	0954	1547835	1
Plutonium-239/240	U	0.00263	+/-0.195	0.433	+/-0.195	1.00	pCi/L						

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Pu-11-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	Alphaspec Pu, Liquid "As Received"	1547835	80.3	(15%-125%)

Notes:

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

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: March 16, 2016

Contact: Mr. Jeff Lux

Project: Cimarron February 2016 GWM

Client Sample ID: 1377
Sample ID: 391704013
Matrix: Water
Collect Date: 18-FEB-16
Receive Date: 19-FEB-16
Collector: Client

Project: CMRN00117
Client ID: CMRN001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Alpha Spec Analysis

Alphaspec Pu, Liquid "As Received"

Plutonium-238	U	0.00	+/-0.139	0.207	+/-0.139	1.00	pCi/L		JXE2	03/07/16	0954	1547835	1
Plutonium-239/240	U	0.0358	+/-0.199	0.381	+/-0.199	1.00	pCi/L						

The following Analytical Methods were performed

Method	Description
--------	-------------

1 DOE EML HASL-300, Pu-11-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	Alphaspec Pu, Liquid "As Received"	1547835	80.6	(15%-125%)

Notes:

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

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 16, 2016

Page 1 of 2

Client : Environmental Properties Management, LLC
615 N. Hudson
Suite 200
Oklahoma City, Oklahoma
Contact: Mr. Jeff Lux
Workorder: 391704

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	1547835										
QC1203497033	391704012	DUP									
Plutonium-238	U	-0.0132	U	0.0598	pCi/L	0		N/A	JXE2	03/07/1609:54	
	Uncert:	+/-0.197		+/-0.298							
	TPU:	+/-0.198		+/-0.298							
Plutonium-239/240	U	0.00263	U	0.0569	pCi/L	0		N/A			
	Uncert:	+/-0.195		+/-0.255							
	TPU:	+/-0.195		+/-0.255							
QC1203497035	LCS										
Plutonium-238			U	0.123	pCi/L				JXE2	03/07/1609:54	
	Uncert:			+/-0.325							
	TPU:			+/-0.325							
Plutonium-239/240	19.8			19.6	pCi/L		99.4	(75%-125%)			
	Uncert:			+/-2.46							
	TPU:			+/-3.64							
QC1203497032	MB										
Plutonium-238			U	0.0237	pCi/L				JXE2	03/07/1609:54	
	Uncert:			+/-0.248							
	TPU:			+/-0.248							
Plutonium-239/240			U	-0.0609	pCi/L						
	Uncert:			+/-0.184							
	TPU:			+/-0.184							
QC1203497034	391704012	MS									
Plutonium-238	U	-0.0132	U	0.0662	pCi/L				JXE2	03/07/1609:54	
	Uncert:	+/-0.197		+/-0.355							
	TPU:	+/-0.198		+/-0.355							
Plutonium-239/240	19.8	U	0.00263	20.7	pCi/L		105	(75%-125%)			
	Uncert:	+/-0.195		+/-2.47							
	TPU:	+/-0.195		+/-3.72							

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 391704

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.									
M	M if above MDC and less than LLD									
M	REMP Result > MDC/CL and < RDL									
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.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
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.