



Tuesday, August 17, 2021

Max Trehus
Great Western Operating Company, LLC
4093 Specialty Place, Unit B
Longmont, CO 80504

Re: ALS Workorder: 2107301
Project Name: Grant Properties LTD 1
Project Number:

Dear Mr. Trehus:

Two water samples were received from Great Western Operating Company, LLC, on 7/16/2021. The samples were scheduled for the following analyses:

Dissolved Gasses

GC/MS Volatiles

Inorganics

Metals

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



2107301

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

Dissolved Gasses:

The sample was prepared and analyzed according to method RSK-175 procedures and the current revision of SOP 449.

All acceptance criteria were met.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All surrogate recoveries were within acceptance criteria with the following exception:

Surrogate	Sample	Direction
O-terphenyl	-1	Low

The surrogate recovery for sample -1 was below the lower control limit of 69% at 36%. The sample was ran on a separate day with similar results.

All remaining acceptance criteria were met.

**Metals:**

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by Trace ICP followed method 200.7 and the current revision of SOP 834.

The dissolved metals could not be filtered and was canceled.
All acceptance criteria were met.

Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

The sample was analyzed outside of hold time for TDS. (See NCR #15326)

All remaining acceptance criteria were met.

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Sample Number(s) Cross-Reference Table

OrderNum: 2107301

Client Name: Great Western Operating Company, LLC

Client Project Name: Grant Properties LTD 1

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP1 - A	2107301-1		WATER	14-Jul-21	10:30
GP1 - B	2107301-2		WATER	14-Jul-21	10:30



Chain-of-Custody



Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.

[illegible]



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: GWOC Workorder No: 2107301
 Project Manager: KMO Initials: JPE Date: 07/16/2021

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?				X		
Tracking number: _____						
2. Are custody seals on shipping containers intact?				X		
3. Are custody seals on sample containers intact?				X		
4. Is there a COC (chain-of-custody) present?					X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)					X	
6. Are short-hold samples present?						X
7. Are all samples within holding times for the requested analyses?					X	
8. Were all sample containers received intact? (not broken or leaking)					X	
9. Is there sufficient sample for the requested analyses?					X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)					X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)					X	
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)					X	
13. Were the samples shipped on ice?					X	
14. Were cooler temperatures measured at 0.1-6.0°C?				IR gun used*: #5	RAD ONLY	X
Cooler #: <u>1</u> Temperature (°C): <u>1.1</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>NA</u> Background µR/hr reading: <u>11</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES (If no, see Form 008.)						

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by: JE

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 7/19/21

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SAMPLE SUMMARY REPORT

Client: Great Western Operating Company, LLC

Date: 17-Aug-21

Project: Grant Properties LTD 1

Work Order: 2107301

Sample ID: GP1 - A

Lab ID: 2107301-1

Legal Location:

Matrix: WATER

Collection Date: 7/14/2021 10:30

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/29/2021	PrepBy: LMC
BICARBONATE AS CaCO3	480		20	MG/L	1	7/29/2021
CARBONATE AS CaCO3	220		20	MG/L	1	7/29/2021
TOTAL ALKALINITY AS CaCO3	710		20	MG/L	1	7/29/2021
Diesel Range Organics		SW8015M			Prep Date: 7/26/2021	PrepBy: JRS
Diesel Range Organics	15		1.1	MG/L	1	8/3/2021 12:14
Surr: O-TERPHENYL	36	*	69-120	%REC	1	8/3/2021 12:14
Dissolved Gasses		RSK175			Prep Date: 7/23/2021	PrepBy: JRS
METHANE	21000		20	UG/L	20	7/23/2021 15:44
ETHANE	260		40	UG/L	20	7/23/2021 15:44
PROPANE	460		20	UG/L	20	7/23/2021 15:44
Gasoline Range Organics		SW8015			Prep Date: 7/26/2021	PrepBy: JRS
GASOLINE RANGE ORGANICS	0.48		0.1	MG/L	1	7/27/2021 00:09
Surr: 2,3,4-TRIFLUOROTOLUENE	96		80-120	%REC	1	7/27/2021 00:09
GC/MS Volatiles		SW8260_25			Prep Date: 7/28/2021	PrepBy: TWK
BENZENE	43		5	UG/L	5	7/28/2021 22:21
TOLUENE	35		5	UG/L	5	7/28/2021 22:21
ETHYLBENZENE	13		5	UG/L	5	7/28/2021 22:21
M+P-XYLENE	25		5	UG/L	5	7/28/2021 22:21
O-XYLENE	16		5	UG/L	5	7/28/2021 22:21
TOTAL XYLENES	41		1	UG/L	1	7/28/2021 22:21
Surr: 4-BROMOFLUOROBENZENE	101		80-120	%REC	5	7/28/2021 22:21
Surr: DIBROMOFLUOROMETHANE	96		80-120	%REC	5	7/28/2021 22:21
Surr: TOLUENE-D8	97		80-120	%REC	5	7/28/2021 22:21
Ion Chromatography		EPA300.0			Prep Date: 8/2/2021	PrepBy: AOW
CHLORIDE	880		10	MG/L	50	8/3/2021 13:53
SULFATE	ND		50	MG/L	50	8/3/2021 13:53
Total Recoverable Metals by 200.7		EPA200.7			Prep Date: 8/2/2021	PrepBy: JML
CALCIUM	14		10	MG/L	1	8/3/2021 11:38
POTASSIUM	17		10	MG/L	1	8/3/2021 11:38
MAGNESIUM	ND		10	MG/L	1	8/3/2021 11:38
SODIUM	850		10	MG/L	1	8/3/2021 11:38
Total Dissolved Solids		SM2540C			Prep Date: 7/27/2021	PrepBy: BMK
TOTAL DISSOLVED SOLIDS	3000		80	MG/L	1	7/29/2021

Client: Great Western Operating Company, LLC

Date: 17-Aug-21

Project: Grant Properties LTD 1

Work Order: 2107301

Sample ID: GP1 - B

Lab ID: 2107301-2

Legal Location:

Matrix: WATER

Collection Date: 7/14/2021 10:30

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

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Date: 8/17/2021 9:41:

Client: Great Western Operating Company, LLC

QC BATCH REPORT

Work Order: 2107301

Project: Grant Properties LTD 1

Batch ID: HC210723-91-1

Instrument ID MEE-1

Method: RSK175

LCS	Sample ID: HC210723-91				Units: UG/L		Analysis Date: 7/23/2021 15:13				
Client ID:	Run ID: HC210723-91A				Prep Date: 7/23/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	157	1	142		110	76-125				25	
ETHANE	295	2	267		110	70-120				25	
PROPANE	435	1	391		111	72-120				25	

LCSD	Sample ID: HC210723-91				Units: UG/L		Analysis Date: 7/23/2021 16:11				
Client ID:	Run ID: HC210723-91A				Prep Date: 7/23/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	157	1	142		110	76-125		157	0	25	
ETHANE	292	2	267		110	70-120		295	1	25	
PROPANE	430	1	391		110	72-120		435	1	25	

MB	Sample ID: HC210723-91			Units: UG/L	Analysis Date: 7/23/2021 15:21		
Client ID:	Run ID: HC210723-91A			Prep Date: 7/23/2021		DF: 1	
Analyte	Result	ReportLimit	Qual				
METHANE	ND	1					
ETHANE	ND	2					
PROPANE	ND	1					

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
Work Order: 2107301
Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **HC210726-62-1** Instrument ID **FUELS-1** Method: **SW8015**

LCS	Sample ID: HC210726-62			Units: MG/L			Analysis Date: 7/26/2021 22:16				
Client ID:		Run ID: HC210726-61A			Prep Date: 7/26/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.467	0.1	0.5		93	80-120				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0987		0.1		99	80-120					

LCSD	Sample ID: HC210726-62			Units: MG/L			Analysis Date: 7/27/2021 02:47				
Client ID:	Run ID: HC210726-61A			Prep Date: 7/26/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.478	0.1	0.5		96	80-120		0.467	2	20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.105		0.1		105	80-120			6		

MB		Sample ID: HC210726-62		Units: MG/L		Analysis Date: 7/26/2021 15:07	
Client ID:		Run ID: HC210726-61A		Prep Date: 7/26/2021		DF: 1	
Analyte		Result	ReportLimit	Qual			
GASOLINE RANGE ORGANICS		ND	0.1				
Surr: 2,3,4-TRIFLUOROTOLUENE		0.0949		95	80-120		

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
Work Order: 2107301
Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **HC210726-82-1** Instrument ID **FUELS-1** Method: **SW8015M**

LCS	Sample ID: HC210726-82				Units: MG/L		Analysis Date: 8/2/2021 18:38				
Client ID:		Run ID: HC210802-81A				Prep Date: 7/26/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	5.94	1.07	8.33		71	53-120				20	
Surr: O-TERPHENYL	1.61		1.67		96	69-120					

LCSD	Sample ID: HC210726-82				Units: MG/L		Analysis Date: 8/2/2021 18:59				
Client ID:	Run ID: HC210802-81A				Prep Date: 7/26/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	6.16	1.07	8.33		74	53-120		5.94	4	20	
Surr: O-TERPHENYL	1.61		1.67		96	69-120			0		

MB		Sample ID: HC210726-82		Units: MG/L		Analysis Date: 8/2/2021 18:17	
Client ID:		Run ID: HC210802-81A		Prep Date: 7/26/2021		DF: 1	
Analyte		Result	ReportLimit	Qual			
Diesel Range Organics		ND	1.1				
Surr: O-TERPHENYL		1.62		97	69-120		

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
 Work Order: 2107301
 Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **IP210802-1-1** Instrument ID **ICPTTrace2** Method: **EPA200.7**

LCS	Sample ID: IP210802-1				Units: MG/L		Analysis Date: 8/3/2021 11:15				
Client ID:		Run ID: IT210803-1A5				Prep Date: 8/2/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	40.1	1	40		100	85-115				20	
MAGNESIUM	40.4	1	40		101	85-115				20	
POTASSIUM	43.1	1	40		108	85-115				20	
SODIUM	41.4	1	40		103	85-115				20	

LCSD	Sample ID: IP210802-1				Units: MG/L		Analysis Date: 8/3/2021 11:16				
Client ID:	Run ID: IT210803-1A5				Prep Date: 8/2/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	40.1	1	40		100	85-115		40.1	0	20	
MAGNESIUM	40.4	1	40		101	85-115		40.4	0	20	
POTASSIUM	43.1	1	40		108	85-115		43.1	0	20	
SODIUM	41.5	1	40		104	85-115		41.4	0	20	

MB	Sample ID: IP210802-1	Units: MG/L	Analysis Date: 8/3/2021 11:14
Client ID:	Run ID: IT210803-1A5	Prep Date: 8/2/2021	DF: 1
Analyte	Result	ReportLimit	Qual
CALCIUM	ND	1	
MAGNESIUM	ND	1	
POTASSIUM	ND	1	
SODIUM	ND	1	

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
 Work Order: 2107301
 Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **VL210728-4-1** Instrument ID **HPV4** Method: **SW8260_25**

LCS		Sample ID: VL210728-4			Units: %REC		Analysis Date: 7/28/2021 16:00				
Client ID:		Run ID: VL210728-4A			Prep Date: 7/28/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.9		25		100	80-120					
Surr: DIBROMOFLUOROMETHANE	24.6		25		98	80-120					
Surr: TOLUENE-D8	24.7		25		99	80-120					
BENZENE	9.14	1	10		91	80-120				20	
TOLUENE	9.17	1	10		92	80-120				20	
ETHYLBENZENE	9.18	1	10		92	80-120				20	
M+P-XYLENE	18.1	1	20		90	80-120				20	
O-XYLENE	9.32	1	10		93	80-120				20	

LCSD		Sample ID: VL210728-4			Units: %REC		Analysis Date: 7/28/2021 16:20				
Client ID:		Run ID: VL210728-4A			Prep Date: 7/28/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.8		25		99	80-120			1		
Surr: DIBROMOFLUOROMETHANE	24.8		25		99	80-120			1		
Surr: TOLUENE-D8	24.2		25		97	80-120			2		
BENZENE	9.33	1	10		93	80-120		9.14	2	20	
TOLUENE	9.18	1	10		92	80-120		9.17	0	20	
ETHYLBENZENE	9.23	1	10		92	80-120		9.18	1	20	
M+P-XYLENE	17.9	1	20		90	80-120		18.1	1	20	
O-XYLENE	9.34	1	10		93	80-120		9.32	0	20	

MB		Sample ID: VL210728-4		Units: %REC		Analysis Date: 7/28/2021 17:24	
Client ID:		Run ID: VL210728-4A		Prep Date: 7/28/2021		DF: 1	
Analyte		Result	ReportLimit			Qual	
Surr: 4-BROMOFLUOROBENZENE		26.1		104	80-120		
Surr: DIBROMOFLUOROMETHANE		24.7		99	80-120		
Surr: TOLUENE-D8		24.8		99	80-120		
BENZENE		ND	1				
TOLUENE		ND	1				
ETHYLBENZENE		ND	1				
M+P-XYLENE		ND	1				
O-XYLENE		ND	1				
TOTAL XYLENES		ND	1				

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
Work Order: 2107301
Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **AK210729-1-2** Instrument ID **NONE** Method: **SM2320B**

LCS	Sample ID: AK210729-1			Units: MG/L			Analysis Date: 7/29/2021				
Client ID:	Run ID: AK210729-1A1			Prep Date: 7/29/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	98.1	5	100		98	85-115				15	

MB		Sample ID: AK210729-1		Units: MG/L		Analysis Date: 7/29/2021	
Client ID:		Run ID: AK210729-1A1		Prep Date: 7/29/2021		DF: 1	
Analyte		Result	ReportLimit	Qual			
BICARBONATE AS CaCO3		ND	5				
CARBONATE AS CaCO3		ND	5				
TOTAL ALKALINITY AS CaCO3		ND	5				

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
Work Order: 2107301
Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **IC210802-2-1** Instrument ID **IC3** Method: **EPA300.0**

LCS	Sample ID: IC210802-2				Units: MG/L		Analysis Date: 8/2/2021 17:22				
Client ID:	Run ID: IC210802-1A1				Prep Date: 8/2/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	9.92	0.2	10		99	90-110				15	
SULFATE	49.6	1	50		99	90-110				15	

LCSD	Sample ID: IC210802-2				Units: MG/L		Analysis Date: 8/2/2021 20:00				
Client ID:		Run ID: IC210802-1A1				Prep Date: 8/2/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	9.83	0.2	10		98	90-110		9.92	1	15	
SULFATE	49	1	50		98	90-110		49.6	1	15	

MB		Sample ID: IC210802-2		Units: MG/L		Analysis Date: 8/2/2021 17:35	
Client ID:		Run ID: IC210802-1A1		Prep Date: 8/2/2021		DF: 1	
Analyte		Result	ReportLimit				
CHLORIDE		ND	0.2				
SULFATE		ND	1				

The following samples were analyzed in this batch:

2107301-1

Client: Great Western Operating Company, LLC
Work Order: 2107301
Project: Grant Properties LTD 1

QC BATCH REPORT

Batch ID: **TD210727-1-1** Instrument ID **Balance** Method: **SM2540C**

LCS	Sample ID: TD210727-1			Units: MG/L			Analysis Date: 7/29/2021				
Client ID:		Run ID: TD210729-2A1			Prep Date: 7/27/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	350	20	400		87	85-115				14	

LCSD	Sample ID: TD210727-1			Units: MG/L			Analysis Date: 7/29/2021				
Client ID:	Run ID: TD210729-2A1			Prep Date: 7/27/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	350	20	400		87	85-115		350	0	14	

MB		Sample ID: TD210727-1		Units: MG/L		Analysis Date: 7/29/2021	
Client ID:		Run ID: TD210729-2A1		Prep Date: 7/27/2021		DF: 1	
Analyte		Result	ReportLimit				
TOTAL DISSOLVED SOLIDS		ND	20				

The following samples were analyzed in this batch:

2107301-1

CONTROLLED NON-CONFORMANCE REPORT

Initiated By: Breyer M. Kinzer on 8/13/2021

Event Type: Hold Time Exceeded

Event Explanation: Due to analyst oversight the sample was analyzed out of hold.

Action To

Prevent Recurrence: Not Applicable

Corrective Action

Corrective Action:

Department Manager Approval:

Approval Date:

Corrective Action Comments:

Workorders Affected

Workorder -- Procedure

2106729 -- SM2540C

2106729 -- SM2540D

2107301 -- SM2540C

No client contact information.

Approved By

Approval Date

PENDING

Associated Batches

The samples were originally associated with the following Batch(es):

TS210708-1A1 created on 7/8/2021

TD210729-2A1 created on 7/29/2021

TD210714-1A1 created on 7/14/2021

All rework was completed in the following Batch(es):

Not Applicable

NCR Approval

Project Manager Approval:

Department Manager Approval:

QA Manager Approval: