The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Kerr-McGee Oil & Gas Onshore LP

GWA_GWA_Salazar_5_20HZ

FID:753512 Reg:615 Freq.:IN

SGS Job Number: DA60681

Sampling Date: 12/14/23

Report to:

Absaroka Energy &Environmental Solutions
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Buffalo, WY 82834
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ATTN: Tanya Cude

Total number of pages in report: 45

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Eric Hoffman

Client Service contact: Parna Payandeh 303-425-6021
Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA60681

GWA_GWA_Salazar_5_20HZ
Project No: FID:753512 Reg:615 Freq.:IN

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
DA60681-1	12/14/23	11:21	PP	12/15/23	AQ	Ground Water	BW_SALAZAR_232985 SWNE_20_3N_67W
DA60681-1A	12/14/23	11:21	PP	12/15/23	AQ	Ground Water	BW_SALAZAR_232985 SWNE_20_3N_67W
DA60681-1B	12/14/23	11:21	PP	12/15/23	AQ	Ground Water	BW_SALAZAR_232985 SWNE_20_3N_67W
DA60681-1F	12/14/23	11:21	PP	12/15/23	AQ	Groundwater Filtered	BW_SALAZAR_232985 SWNE_20_3N_67W

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Kerr-McGee Oil & Gas Onshore LP **Job No:** DA60681

Site: GWA_GWA_Salazar_5_20HZ **Report Date** 1/3/2024 8:58:56 AM

On 12/15/2023, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blanks and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA60681 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5V3876

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK322

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method SW846 8015D

Matrix: AQ **Batch ID:** GGA2822

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** L:OP24266

- The data for SW846 8015C meets quality control requirements.
- DA60681-1: Analysis performed at SGS Scott, LA.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP38590

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60655-1MS, DA60655-1MSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA 300.0

Matrix: AQ	Batch ID: GP35668

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60678-4MS, DA60678-4MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.
- DA60681-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

Matrix: AQ	Batch ID: R62308

- The data for EPA 300.0 meets quality control requirements.
- DA60681-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ	Batch ID: GP35694

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60682-1DUP, DA60682-1MS, DA60682-1MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART-NOCERT

Matrix: AQ	Batch ID: MB1723

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60744-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- DA60681-1B for Iron-Related Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix: AQ	Batch ID: MB1722

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60744-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- DA60681-1B for Slime Forming Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ	Batch ID: MB1721

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60744-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- DA60681-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.

General Chemistry By Method SM 2320B-2011

Matrix: AQ	Batch ID: GN62170

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60649-1DUP, DA60649-1MS, DA60649-1MSD were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix: AQ	Batch ID: GN62171

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ	Batch ID: GN62172

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ	Batch ID: GP35681

- Sample(s) DA60707-7DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ	Batch ID: GN62175

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA60682-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.
- GN62175-BS for Solids, Total Dissolved: Variability of recovery may be due to sample matrix/homogeneity.

General Chemistry By Method SM1030E-2011

Matrix: AQ	Batch ID: GN62227

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ	Batch ID: GN62164

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA60681-1 Analysis performed past recommended hold time.

Field Data By Method FIELD

Matrix: AQ	Batch ID: R62298

- The data for FIELD meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	SGS Wheat Ridge, CO	**Job No:**	DA60681
Site:	ANADACOD: GWA_GWA_Salazar_5_20HZ	**Report Date**	12/22/2023 1:27:44 P

On 12/19/2023, 1 sample was received at SGS North America Inc. (SGS) at a temperature of 2.6 °C. The sample was intact and properly preserved, unless noted below. An SGS Job Number of DA60681 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

GC/LC Semi-volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** OP24266

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: DA60681
Account: Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ
Collected: 12/14/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA60681-1	**BW_SALAZAR_232985 SWNE_20_3N_67W**					
TPH-DRO (C10-C28) [a]		0.0216 J	0.097	0.016	mg/l	SW846 8015C
Fluoride		2.0	0.50		mg/l	EPA 300.0
Chloride		113	13		mg/l	EPA 300.0
Bromide		0.53	0.25		mg/l	EPA 300.0
Nitrogen, Nitrate		13.3	0.50		mg/l	EPA 300.0
Sulfate		967	25		mg/l	EPA 300.0
Nitrogen, Nitrate + Nitrite [b]		13.3	0.60		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		435	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		435	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		2.0			%	SM1030E-2011
Phosphorus, Total		0.035	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		2040	10		mg/l	SM 2540C-2011
Specific Conductivity		2800	1.0		umhos/cm	SM 2510B-2011
pH [c]		7.94			su	SM4500HB+-2011/9040C
Specific Conductivity (Field)		2948.2	0.50		umhos/cm	FIELD
pH (Field)		7.31			su	FIELD
Oxygen, Dissolved (Field)		7.59			mg/l	FIELD
Turbidity		0.03			NTU	FIELD
Redox Potential Vs H2		151			mv	FIELD
Temperature (Field)		3.04			Deg. C	FIELD
DA60681-1A	**BW_SALAZAR_232985 SWNE_20_3N_67W**					
No hits reported in this sample.						
DA60681-1B	**BW_SALAZAR_232985 SWNE_20_3N_67W**					
Iron-Related Bacteria [d]		2200	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria [d]		< 500	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [d]		< 200	200		CFU/ml	HC SRB-BART-NO CERT
DA60681-1F	**BW_SALAZAR_232985 SWNE_20_3N_67W**					
Barium		0.0143	0.0020		mg/l	EPA 200.8
Boron		0.466	0.040		mg/l	EPA 200.8
Calcium		96.0	2.0		mg/l	EPA 200.8
Magnesium		188	0.50		mg/l	EPA 200.8
Manganese		0.0021	0.0010		mg/l	EPA 200.8
Potassium		3.71	0.20		mg/l	EPA 200.8
Selenium		0.0182	0.00040		mg/l	EPA 200.8
Sodium		262	5.0		mg/l	EPA 200.8
Strontium		1.73	0.040		mg/l	EPA 200.8

Summary of Hits

Job Number: DA60681
Account: Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ
Collected: 12/14/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

(a) Analysis performed at SGS Scott, LA.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Analysis performed past recommended hold time.
(d) Certification for this test is not offered.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V78929.D	1	12/19/23 14:40	MB	n/a	n/a	V5V3876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
Method:	SW846 8015D	**Percent Solids:**	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA63656.D	1	12/27/23 14:50	JC	n/a	n/a	GGA2822
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	114%		60-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X0026006.D	1	12/21/23 20:42	ALA	12/18/23 14:30	L:OP24266	L:GLB2615
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.0216	0.097	0.016	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		51-122%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
		Percent Solids:	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	2.0	0.50	mg/l	5	12/15/23 15:15	MB	EPA 300.0
Chloride	113	13	mg/l	25	12/15/23 15:40	MB	EPA 300.0
Nitrogen, Nitrite [a]	< 0.10	0.10	mg/l	25	12/15/23 15:40	MB	EPA 300.0
Bromide	0.53	0.25	mg/l	5	12/15/23 15:15	MB	EPA 300.0
Nitrogen, Nitrate	13.3	0.50	mg/l	50	12/15/23 16:12	MB	EPA 300.0
Sulfate	967	25	mg/l	50	12/15/23 16:12	MB	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [b]	13.3	0.60	mg/l	1	12/15/23 16:12	MB	EPA 300.0
Alkalinity, Bicarbonate as CaC	435	5.0	mg/l	1	12/19/23 12:00	JW	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	12/19/23 12:00	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	435	5.0	mg/l	1	12/19/23 12:00	JW	SM 2320B-2011
Cation Anion Balance	2.0		%	1	12/27/23	MB	SM1030E-2011
Phosphorus, Total	0.035	0.010	mg/l	1	12/19/23 16:18	KH	EPA 365.1
Solids, Total Dissolved	2040	10	mg/l	1	12/19/23 07:00	JW	SM 2540C-2011
Specific Conductivity	2800	1.0	umhos/cm	1	12/18/23 12:00	JW	SM 2510B-2011
pH [c]	7.94		su	1	12/19/23 12:00	JW	SM4500HB+-2011/9040C
Field Parameters							
Oxygen, Dissolved (Field)	7.59		mg/l	1	12/14/23 11:21	SUB	FIELD
Redox Potential Vs H2	151		mv	1	12/14/23 11:21	SUB	FIELD
Specific Conductivity (Field)	2948.2	0.50	umhos/cm	1	12/14/23 11:21	SUB	FIELD
Temperature (Field)	3.04		Deg. C	1	12/14/23 11:21	SUB	FIELD
Turbidity	0.03		NTU	1	12/14/23 11:21	SUB	FIELD
pH (Field)	7.31		su	1	12/14/23 11:21	SUB	FIELD

(a) Elevated detection limit due to matrix interference.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1A	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FK4425.D	1	12/19/23 14:54	JC	n/a	n/a	GFK322
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	22.5 Deg. C
Run #2				

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1B	**Date Sampled:**	12/14/23
Matrix:	AQ - Ground Water	**Date Received:**	12/15/23
		Percent Solids:	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria [a]	2200	25	CFU/ml	1	12/23/23 08:00	CS	HACH IRB-BART-NOCERT
Slime Forming Bacteria [a]	< 500	500	CFU/ml	1	12/23/23 08:00	CS	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [a]	< 200	200	CFU/ml	1	12/23/23 08:00	CS	HC SRB-BART-NO CERT

(a) Certification for this test is not offered.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_SALAZAR_232985 SWNE_20_3N_67W		
Lab Sample ID:	DA60681-1F	**Date Sampled:**	12/14/23
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/23
		Percent Solids:	n/a
Project:	GWA_GWA_Salazar_5_20HZ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	0.0143	0.0020	mg/l	1	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Boron	0.466	0.040	mg/l	1	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Calcium	96.0	2.0	mg/l	5	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Iron	< 0.020	0.020	mg/l	1	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Magnesium	188	0.50	mg/l	5	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Manganese	0.0021	0.0010	mg/l	1	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Potassium	3.71	0.20	mg/l	1	12/21/23	12/26/23	DU	EPA 200.8 [2]	EPA 200.8 [3]
Selenium	0.0182	0.00040	mg/l	1	12/21/23	12/22/23	DU	EPA 200.8 [1]	EPA 200.8 [3]
Sodium	262	5.0	mg/l	10	12/21/23	12/26/23	DU	EPA 200.8 [2]	EPA 200.8 [3]
Strontium	1.73	0.040	mg/l	2	12/21/23	12/26/23	DU	EPA 200.8 [2]	EPA 200.8 [3]

(1) Instrument QC Batch: MA17494
(2) Instrument QC Batch: MA17502
(3) Prep QC Batch: MP38590

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job #: DA60681

Client / Reporting Information

Company: (Report to) **Absaroka Solutions**
Street: 112 High Street
City, State: Buffalo, WY 82834
Project Contact: Tanya Cude
Phone: 352-318-4034
Email: Tanya.Cude@Absarokasolutions.com
Sampler(s) Name(s): Paige Parish

Project Information

Project Name: GWA_GWA - Salazar 5-20HZ
Frequency: IN
Regulation: 615
Facility ID: 753512
EQuIS Facility Code: 0089019-AN-GWABWQ
Client Purchase Order #: 4501699141
Project Manager: Joel Mason

Billing Information (if different from Report to)

Company: Occidental Petroleum Corporation (OXY)
Street Address: 1201 Lake Robbins Drive
City, State ZIP: The Woodlands, TX 77380
Attention: Erik Mickelson User ID: fvv451

Requested Analysis (see TEST CODE sheet)

Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O4	Other	PH, SCON, TDS	XCARBICALK	BRO, CHL, F, NO2, XNO3O, NO32, SO4	TPO4	Dissolved Metals - Lab Filtered*	VRSK175DGMEP	V8260BTX	B8015DRO	V8015GRO	IRBAC, SFBAC, SO4RBAC	CABAL	LAB USE ONLY
BW_Salazar_232985	12/14/2023	11:21	PP	GW	17	9	6			1					1	X	X	X	X	X	X	X	X	X	X	X	
SWNE_20_3N_67W																											
Temperature, field:	3.04 °C																										
pH, field	7.31 s.u.																										
Specific Conductivity, field	2,445.2 uS/cm																										
Oxidation Reduction Potential, field	151.0 mV																										
Dissolved Oxygen, field	7.59 mg/L																										
Turbidity, field	0.07 NTU																										

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency

Emergency & Rush T/A data available VIA LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ (Results/QC/Narrative (+ chromatograms))
- [ ] REDT2
- [ ] FULT1
- [x] EDD Format: COGCC Compatible

Comments / Special Instructions

*Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe,Mg, Mn, K, SeMS, Na, Sr

Please also send reports to Joel.Mason@Absarokasolutions.com and Jordan.Fleming@Absarokasolutions.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date/Time: 12/14/23 18:00	Received By: 1	Relinquished By: 2	Date/Time: 12/15/23	Received By: 2 Zachary Rasmussen 1230
Relinquished by Sampler: 3	Date/Time:	Received By: 3	Relinquished By: 4	Date/Time:	Received By: 4

Custody Seal # 173183 Intact [x] Not Intact [ ] Absent [ ]
Preserved where applicable [ ]
Cooler Temp. °C: 3.4 Therm. ID: T080 On Ice [x]

Form MSQA 064-01, RV 6/19/17
http://www.sgs.com/terms-and-conditions

5.1 5

DA60681: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da60681 **Client:** ABSAROKA SOLUTIONS **Project:** GWA_GWA-SALAZAR 5-20HZ

Date / Time Received: 12/15/2023 12:30:00 PM **Delivery Method:** CO **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Information	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☐		☐	
7. VOCs have headspace	☑		☐	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☐
11. % Solids Jar Received?	☐		☐	☐
12. Residual Chlorine Present?	☐		☐	☐

Misc Information

Number of Encores: 25 Gram 5 Gram Number of Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: pH 10-12: Other: (Specify)

Residual Chlorine Test Strip Lot #

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 12/15/2023 1:40:59 PM Reviewer: Date:

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3876-MB	5V78923.D	1	12/19/23	MB	n/a	n/a	V5V3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA60681-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3876-BS	5V78920.D	1	12/19/23	MB	n/a	n/a	V5V3876
V5V3876-BSD	5V78921.D	1	12/19/23	MB	n/a	n/a	V5V3876

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA60681-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.1	100	49.7	99	1	70-130/30
100-41-4	Ethylbenzene	50	50.6	101	50.3	101	1	70-130/30
108-88-3	Toluene	50	48.7	97	48.8	98	0	70-130/30
	m,p-Xylene	100	103	103	103	103	0	70-130/30
95-47-6	o-Xylene	50	50.6	101	50.6	101	0	70-130/30
1330-20-7	Xylene (total)	150	154	103	154	103	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	70-130%
2037-26-5	Toluene-D8	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	98%	99%	70-130%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2822-MB	GA63655.D	1	12/27/23	JC	n/a	n/a	GGA2822

The QC reported here applies to the following samples: **Method:** SW846 8015D

DA60681-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	115%	60-140%

Method Blank Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK322-MB	FK4422.D	1	12/19/23	JC	n/a	n/a	GFK322

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA60681-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2822-BS	GA63652.D	1	12/27/23	JC	n/a	n/a	GGA2822
GGA2822-BSD	GA63653.D	1	12/27/23	JC	n/a	n/a	GGA2822

The QC reported here applies to the following samples: **Method:** SW846 8015D

DA60681-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	2.2	2.18	99	2.20	100	1	64-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
120-82-1	1,2,4-Trichlorobenzene	111%	113%	60-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA60681
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK322-BS	FK4423.D	10	12/19/23	JC	n/a	n/a	GFK322
GFK322-BSD	FK4424.D	10	12/19/23	JC	n/a	n/a	GFK322

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA60681-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.512	0.597	117	0.592	116	1	70-135/30
74-84-0	Ethane	0.923	1.16	126	1.15	125	1	70-147/30
74-98-6	Propane	1.38	1.65	120	1.64	119	1	70-140/30

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

QC Batch ID: MP38590
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 12/21/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	13		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.25	0.017	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	0.15	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	7.3	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	2.1	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	12.0	<100
Manganese	1.0	.079	.51	0.039	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	1.4	<200
Selenium	0.40	.05	.1	-0.015	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	-2.8	<500
Strontium	20	.1	5	0.0071	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.37		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2.1		

Associated samples MP38590: DA60681-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

QC Batch ID: MP38590
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 12/21/23

Metal	DA60655-1 Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	44.9	444	400	99.8	70-130
Beryllium	anr				
Boron	73.2	476	400	100.7	70-130
Cadmium	anr				
Calcium	16300	20500	5000	84.0	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	10.2	991	1000	98.1	70-130
Lead	anr				
Magnesium	499	5020	5000	90.4	70-130
Manganese	1.8	205	200	101.6	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	6070	10600	5000	90.6	70-130
Selenium	0.22	193	200	96.4	70-130
Silver	anr				
Sodium	171000	207000	5000	720.0(a)	70-130
Strontium	523	628	100	105.0	70-130
Thallium	anr				
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP38590: DA60681-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

QC Batch ID: MP38590 Methods: EPA 200.8
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 12/21/23

Metal	DA60655-1 Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	44.9	444	400	99.8	4.8	20
Beryllium	anr					
Boron	73.2	478	400	101.2	5.7	20
Cadmium	anr					
Calcium	16300	20400	5000	82.0	12.0	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	10.2	992	1000	98.2	7.6	20
Lead	anr					
Magnesium	499	5180	5000	93.6	10.3	20
Manganese	1.8	199	200	98.6	8.7	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	6070	10500	5000	88.6	19.7	20
Selenium	0.22	190	200	94.9	9.0	20
Silver	anr					
Sodium	171000	201000	5000	600.0(a)	2.9	20
Strontium	523	609	100	86.0	3.4	20
Thallium	anr					
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP38590: DA60681-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

QC Batch ID: MP38590
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 12/21/23

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	394	400	98.5	85-115
Beryllium	anr			
Boron	414	400	103.5	85-115
Cadmium	anr			
Calcium	4920	5000	98.4	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	965	1000	96.5	85-115
Lead	anr			
Magnesium	4950	5000	99.0	85-115
Manganese	200	200	100.0	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	4720	5000	94.4	85-115
Selenium	202	200	101.0	85-115
Silver	anr			
Sodium	5010	5000	100.2	85-115
Strontium	99.7	100	99.7	85-115
Thallium	anr			
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP38590: DA60681-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN62171	5.0	0.0	mg/l	100	101	101.3	90-110%
Alkalinity, Carbonate	GN62172	5.0	0.0	mg/l	100	101	101.3	90-110%
Alkalinity, Total as CaCO3	GN62170	5.0	0.0	mg/l	100	101	101.3	90-110%
Bromide	GP35668/GN62151	0.050	0.0	mg/l	0.5	0.475	95.0	90-110%
Chloride	GP35668/GN62151	0.50	0.0	mg/l	5	4.68	93.6	90-110%
Fluoride	GP35668/GN62151	0.10	0.0	mg/l	1	0.962	96.2	90-110%
Iron-Related Bacteria	MB1723	25	<25	CFU/ml				
Nitrogen, Nitrate	GP35668/GN62151	0.010	0.0	mg/l	0.1	0.100	100.0	90-110%
Nitrogen, Nitrite	GP35668/GN62151	0.0040	0.0	mg/l	0.05	0.0488	97.6	90-110%
Phosphorus, Total	GP35694/GN62191	0.010	0.0	mg/l	0.2	0.189	94.5	90-110%
Slime Forming Bacteria	MB1722	500	<500	CFU/ml				
Solids, Total Dissolved	GN62175	10	0.0	mg/l	1000	980	98.0(a)	90-110%
Specific Conductivity	GP35681/GN62154			umhos/cm	10000	10100	101.2	90-110%
Sulfate	GP35668/GN62151	0.50	0.0	mg/l	5	4.74	94.8	90-110%
Sulfate Reducing Bacteria	MB1721	200	<200	CFU/ml				

Associated Samples:
Batch MB1721: DA60681-1B
Batch MB1722: DA60681-1B
Batch MB1723: DA60681-1B
Batch GN62170: DA60681-1
Batch GN62171: DA60681-1
Batch GN62172: DA60681-1
Batch GN62175: DA60681-1
Batch GP35668: DA60681-1
Batch GP35681: DA60681-1
Batch GP35694: DA60681-1
(*) Outside of QC limits
(a) Variability of recovery may be due to sample matrix/homogeneity.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN62170	DA60649-1	mg/l	220	220	0.0	0-20%
Iron-Related Bacteria	MB1723	DA60744-1B	CFU/ml	9000	9000	0.0	0-%
Phosphorus, Total	GP35694/GN62191	DA60682-1	mg/l	0.074	0.074	0.0	0-20%
Slime Forming Bacteria	MB1722	DA60744-1B	CFU/ml	67000	67000	0.0	0-%
Solids, Total Dissolved	GN62175	DA60682-1	mg/l	785	804	2.3	0-5.44%
Specific Conductivity	GP35681/GN62154	DA60707-7	umhos/cm	18300	18300	0.1	0-20%
Sulfate Reducing Bacteria	MB1721	DA60744-1B	CFU/ml	<200	<200	0.0	0-%

Associated Samples:
Batch MB1721: DA60681-1B
Batch MB1722: DA60681-1B
Batch MB1723: DA60681-1B
Batch GN62170: DA60681-1
Batch GN62175: DA60681-1
Batch GP35681: DA60681-1
Batch GP35694: DA60681-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN62170	DA60649-1	mg/l	220	100	313	92.5	80-120%
Bromide	GP35668/GN62151	DA60678-4	mg/l	0.63 U	12.5	11.8	94.4	80-120%
Chloride	GP35668/GN62151	DA60678-4	mg/l	101	125	224	98.4	80-120%
Fluoride	GP35668/GN62151	DA60678-4	mg/l	1.3 U	25	25.1	100.4	80-120%
Nitrogen, Nitrate	GP35668/GN62151	DA60678-4	mg/l	3.2	2.5	5.7	100.0	80-120%
Nitrogen, Nitrite	GP35668/GN62151	DA60678-4	mg/l	1.0	1.25	2.2	96.0	80-120%
Phosphorus, Total	GP35694/GN62191	DA60682-1	mg/l	0.074	0.2	0.27	98.0	90-110%
Sulfate	GP35668/GN62151	DA60678-4	mg/l	105	125	225	96.0	80-120%

Associated Samples:
Batch GN62170: DA60681-1
Batch GP35668: DA60681-1
Batch GP35694: DA60681-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA60681
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_GWA_Salazar_5_20HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN62170	DA60649-1	mg/l	220	100	310	0.8	20%
Bromide	GP35668/GN62151	DA60678-4	mg/l	0.63 U	12.5	11.8	0.0	20%
Chloride	GP35668/GN62151	DA60678-4	mg/l	101	125	223	0.4	20%
Fluoride	GP35668/GN62151	DA60678-4	mg/l	1.3 U	25	25.1	0.0	20%
Nitrogen, Nitrate	GP35668/GN62151	DA60678-4	mg/l	3.2	2.5	5.7	0.0	20%
Nitrogen, Nitrite	GP35668/GN62151	DA60678-4	mg/l	1.0	1.25	2.2	0.0	20%
Phosphorus, Total	GP35694/GN62191	DA60682-1	mg/l	0.074	0.2	0.27	0.0	20%
Sulfate	GP35668/GN62151	DA60678-4	mg/l	105	125	225	0.0	20%

Associated Samples:
Batch GN62170: DA60681-1
Batch GP35668: DA60681-1
Batch GP35694: DA60681-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

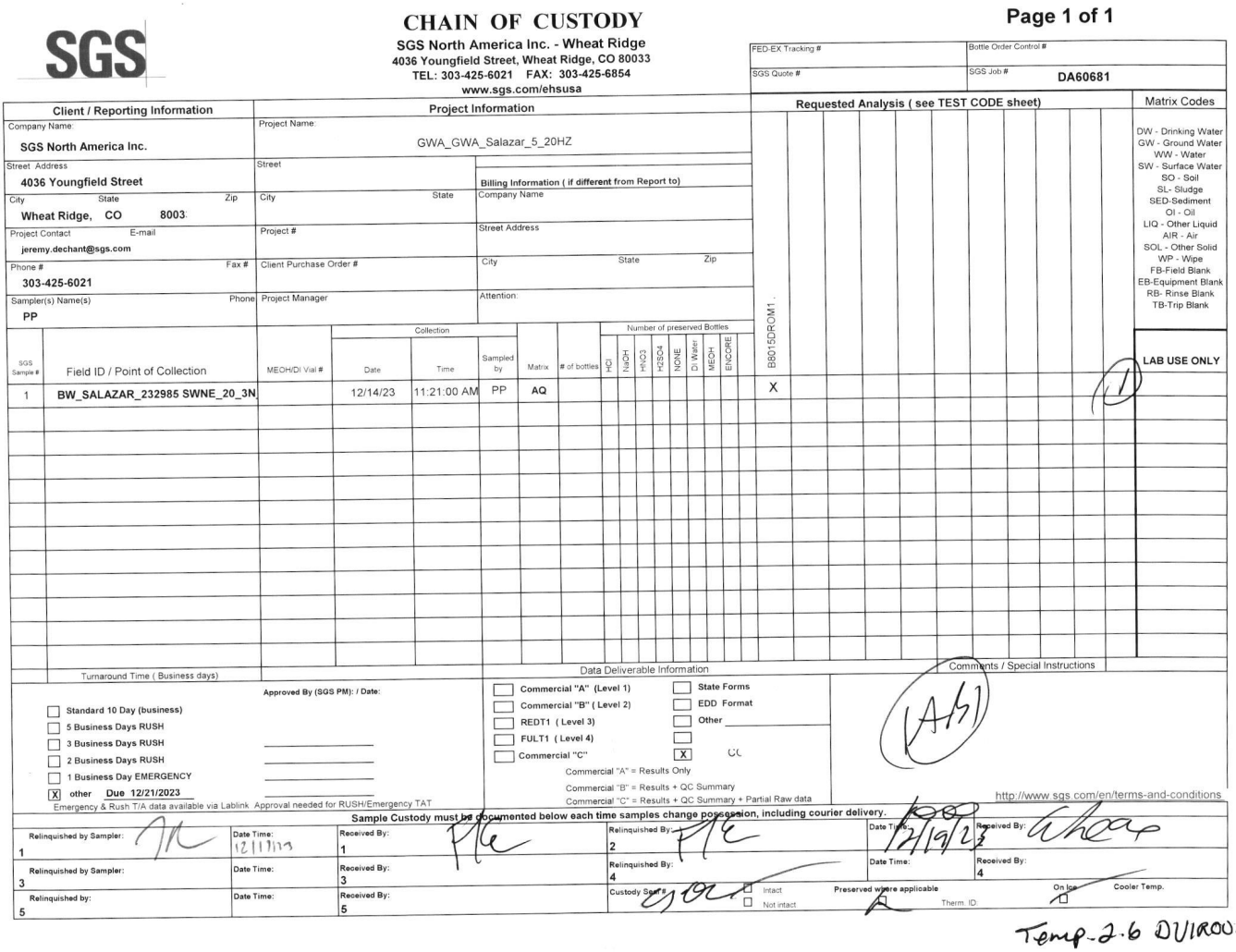
Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

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SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: DA60681

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City: Wheat Ridge, State: CO, Zip: 8003
Project Contact: jeremy.dechant@sgs.com, E-mail:
Phone #: 303-425-6021, Fax #:
Sampler(s) Name(s): PP, Phone:

Project Information

Project Name: GWA_GWA_Salazar_5_20HZ
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROM1
1	BW_SALAZAR_232985 SWNE_20_3N		12/14/23	11:21:00 AM	PP	AQ										X

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

LAB USE ONLY

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 12/21/2023

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT.

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 12/19/23	Received By: 1	Relinquished By: 2	Date Time: 12/19/23	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seals: [ ] Intact [ ] Not intact	Preserved where applicable: [ ] Therm. ID:	On Ice: [ ] Cooler Temp.

Temp-2.6 DV1R002

10.1 10

DA60681: Chain of Custody
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SGS Scott, LA

10.1

10

DA60681: Chain of Custody
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SGS Sample Receipt Summary

Job Number: da60681 **Client:** SGS-CO **Project:** GWA_GWA_SALAZAR

Date / Time Received: 12/19/2023 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 646648957518

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR002		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: _____ pH 12+: _____ Other: (Specify) _____ _____

Comments Rec'd 2 bottles one was broken upon receipt.

SM089-03
Rev. Date 12/7/17

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA60681
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24266-MB	X0026000.D	1	12/21/23	JT	12/18/23	OP24266	GLB2615

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA60681-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.017	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	75%	51-122%

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA60681
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: GWA_GWA_Salazar_5_20HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24266-BS	X0026001.D	1	12/21/23	JT	12/18/23	OP24266	GLB2615
OP24266-BSD	X0026002.D	1	12/21/23	JT	12/18/23	OP24266	GLB2615

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA60681-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	3	1.99	66	2.23	74	11	49-103/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	65%	72%	51-122%

* = Outside of Control Limits.