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Automated Report

Technical Report for

Occidental Petroleum Corporation

Kerr-McGee: GWA_Griswold_27N_11HZ

FID:772625 Reg:Vol. Freq.:IN

SGS Job Number: DA62610

Sampling Date: 03/04/24

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Total number of pages in report: 48

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

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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

Occidental Petroleum Corporation

Job No: DA62610

Kerr-McGee: GWA_Griswold_27N_11HZ
Project No: FID:772625 Reg:Vol. Freq.:IN

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
DA62610-1	03/04/24	10:47	EF	03/05/24	AQ	Ground Water	BW_BUFFALO_58905_FSENW_12_1N_66W
DA62610-1A	03/04/24	10:47	EF	03/05/24	AQ	Ground Water	BW_BUFFALO_58905_FSENW_12_1N_66W
DA62610-1B	03/04/24	10:47	EF	03/05/24	AQ	Ground Water	BW_BUFFALO_58905_FSENW_12_1N_66W
DA62610-1F	03/04/24	10:47	EF	03/05/24	AQ	Groundwater Filtered	BW_BUFFALO_58905_FSENW_12_1N_66W

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Occidental Petroleum Corporation	**Job No:**	DA62610
Site:	Kerr-McGee: GWA_Griswold_27N_11HZ	**Report Date**	3/26/2024 9:45:50 AM

On 03/05/2024, 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 4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA62610 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:** V5V3932

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA62539-2MS, DA62539-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK341

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA62742-1MS, DA62742-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method SW846 8015D

Matrix: AQ **Batch ID:** GGA2849

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA62445-48MS, DA62445-48MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** L:OP24741

- The data for SW846 8015C meets quality control requirements.
- DA62610-1: Analysis performed at SGS Scott, LA.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP39042

- 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) DA62589-2FAMS, DA62589-2FAMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Calcium, 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:	GP36151

- 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) DA62610-1MS, DA62610-1MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Sulfate, Bromide, Nitrogen, Nitrite analysis.
- The matrix spike (MS) recovery(s) of Nitrogen, Nitrite are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Nitrogen, Nitrite are outside control limits. Probable cause due to matrix interference.
- DA62610-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.
- DA62610-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA62610-1 for Sulfate: Elevated detection limit due to matrix interference.

Matrix:	AQ	Batch ID:	R62759

- The data for EPA 300.0 meets quality control requirements.
- DA62610-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix:	AQ	Batch ID:	GP36147

- 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) DA62663-1DUP, DA62663-1MSD were used as the QC samples for the Phosphorus, Total analysis.
- The matrix spike (MS) recovery(s) of Phosphorus, Total 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 HACH IRB-BART-NOCERT

Matrix:	AQ	Batch ID:	MB1743

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62528-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- DA62610-1B for Iron-Related Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix:	AQ	Batch ID:	MB1739

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62528-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- DA62610-1B for Slime Forming Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ **Batch ID:** MB1741

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62528-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- DA62610-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN62813

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62528-1DUP, DA62528-1MS, DA62528-1MSD were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix: AQ **Batch ID:** GN62814

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

Matrix: AQ **Batch ID:** GN62815

- 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:** GP36170

- Sample(s) DA62766-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ **Batch ID:** GN62807

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62660-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

General Chemistry By Method SM1030E-2011

Matrix: AQ **Batch ID:** GN62887

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

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ **Batch ID:** GN62831

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA62610-1 Analysis performed past recommended hold time.

Field Data By Method FIELD

Matrix: AQ **Batch ID:** R62702

- 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:** DA62610

Site: ANADACOD: Kerr-McGee: GWA_Griswold_27N_11HZ **Report Date** 3/21/2024 11:31:03 A

On 03/07/2024, 1 sample was received at SGS North America Inc. (SGS) at a temperature of 2.2 °C. The sample was intact and properly preserved, unless noted below. An SGS Job Number of DA62610 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:** OP24741

- 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: DA62610
Account: Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ
Collected: 03/04/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA62610-1	**BW_BUFFALO_58905_F SENW_12_1N_66W**					
Fluoride		1.8	0.50		mg/l	EPA 300.0
Chloride		80.8	2.5		mg/l	EPA 300.0
Bromide		0.78	0.25		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		545	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate		30.0	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		575	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		3.3			%	SM1030E-2011
Phosphorus, Total		0.055	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		663	10		mg/l	SM 2540C-2011
Specific Conductivity		1230	1.0		umhos/cm	SM 2510B-2011
pH [a]		8.82			su	SM4500HB + -2011/9040C
Specific Conductivity (Field)		1213.9	0.50		umhos/cm	FIELD
pH (Field)		8.53			su	FIELD
Oxygen, Dissolved (Field)		1.65			mg/l	FIELD
Turbidity		1.26			NTU	FIELD
Redox Potential Vs H2		75.1			mv	FIELD
Temperature (Field)		14.2			Deg. C	FIELD
DA62610-1A	**BW_BUFFALO_58905_F SENW_12_1N_66W**					
Methane		9.74	0.040	0.035	mg/l	RSK175 MOD
Ethane		0.0221	0.0016	0.0010	mg/l	RSK175 MOD
DA62610-1B	**BW_BUFFALO_58905_F SENW_12_1N_66W**					
Iron-Related Bacteria [b]		35000	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria [b]		67000	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [b]		6000	200		CFU/ml	HC SRB-BART-NO CERT
DA62610-1F	**BW_BUFFALO_58905_F SENW_12_1N_66W**					
Barium		0.0711	0.0020		mg/l	EPA 200.8
Boron		0.377	0.040		mg/l	EPA 200.8
Calcium		1.81	0.40		mg/l	EPA 200.8
Iron		0.0689	0.020		mg/l	EPA 200.8
Magnesium		0.507	0.10		mg/l	EPA 200.8
Manganese		0.0046	0.0010		mg/l	EPA 200.8
Potassium		1.41	0.20		mg/l	EPA 200.8
Sodium		295	10		mg/l	EPA 200.8
Strontium		0.0803	0.020		mg/l	EPA 200.8

(a) Analysis performed past recommended hold time.
(b) Certification for this test is not offered.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V80028.D	1	03/07/24 18:44	MB	n/a	n/a	V5V3932
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	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	101%		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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
Method:	SW846 8015D	**Percent Solids:**	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA64395.D	1	03/11/24 07:54	JC	n/a	n/a	GGA2849
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	119%		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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X0027374.D	1	03/09/24 12:58	ALA	03/08/24 08:30	L:OP24741	L:GLB2650
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)	ND	0.19	0.016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
		Percent Solids:	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	1.8	0.50	mg/l	5	03/06/24 10:18	CS	EPA 300.0
Chloride	80.8	2.5	mg/l	5	03/06/24 10:18	CS	EPA 300.0
Nitrogen, Nitrite [a]	< 0.020	0.020	mg/l	5	03/06/24 10:18	CS	EPA 300.0
Bromide	0.78	0.25	mg/l	5	03/06/24 10:18	CS	EPA 300.0
Nitrogen, Nitrate [a]	< 0.050	0.050	mg/l	5	03/06/24 10:18	CS	EPA 300.0
Sulfate [a]	< 2.5	2.5	mg/l	5	03/06/24 10:18	CS	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [b]	< 0.070	0.070	mg/l	1	03/06/24 10:18	CS	EPA 300.0
Alkalinity, Bicarbonate as CaC	545	5.0	mg/l	1	03/07/24 12:00	JW	SM 2320B-2011
Alkalinity, Carbonate	30.0	5.0	mg/l	1	03/07/24 12:00	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	575	5.0	mg/l	1	03/07/24 12:00	JW	SM 2320B-2011
Cation Anion Balance	3.3		%	1	03/20/24	MB	SM1030E-2011
Phosphorus, Total	0.055	0.010	mg/l	1	03/07/24 17:15	KH	EPA 365.1
Solids, Total Dissolved	663	10	mg/l	1	03/07/24 07:00	JW	SM 2540C-2011
Specific Conductivity	1230	1.0	umhos/cm	1	03/11/24 13:00	JW	SM 2510B-2011
pH [c]	8.82		su	1	03/08/24 12:00	JW	SM4500HB+-2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	1.65		mg/l	1	03/04/24 10:47	SUB	FIELD
Redox Potential Vs H2	75.1		mv	1	03/04/24 10:47	SUB	FIELD
Specific Conductivity (Field)	1213.9	0.50	umhos/cm	1	03/04/24 10:47	SUB	FIELD
Temperature (Field)	14.2		Deg. C	1	03/04/24 10:47	SUB	FIELD
Turbidity	1.26		NTU	1	03/04/24 10:47	SUB	FIELD
pH (Field)	8.53		su	1	03/04/24 10:47	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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1A	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FK4657.D	1	03/11/24 13:45	MB	n/a	n/a	GFK341
Run #2	FK4658.D	50	03/11/24 13:51	MB	n/a	n/a	GFK341

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	20.8 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	20.8 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	9.74 [a]	0.040	0.035	mg/l	
74-84-0	Ethane	0.0221	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) Result is from Run# 2

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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1B	**Date Sampled:**	03/04/24
Matrix:	AQ - Ground Water	**Date Received:**	03/05/24
		Percent Solids:	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria [a]	35000	25	CFU/ml	1	03/14/24 08:00	CS	HACH IRB-BART-NOCERT
Slime Forming Bacteria [a]	67000	500	CFU/ml	1	03/14/24 08:00	CS	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [a]	6000	200	CFU/ml	1	03/14/24 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_BUFFALO_58905_F SENW_12_1N_66W		
Lab Sample ID:	DA62610-1F	**Date Sampled:**	03/04/24
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/05/24
		Percent Solids:	n/a
Project:	Kerr-McGee: GWA_Griswold_27N_11HZ		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	0.0711	0.0020	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Boron	0.377	0.040	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Calcium	1.81	0.40	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Iron	0.0689	0.020	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Magnesium	0.507	0.10	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Manganese	0.0046	0.0010	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Potassium	1.41	0.20	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Selenium	< 0.00040	0.00040	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Sodium	295	10	mg/l	20	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Strontium	0.0803	0.020	mg/l	1	03/15/24	03/16/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]

(1) Instrument QC Batch: MA17756
(2) Prep QC Batch: MP39042

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

Page _1_ of _1_

Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job #: DA 6 2 6 10

Client / Reporting Information

Company: Kerr-McGee Oil and Gas Onshore LP
Street: 1099 18th Street
City, State: Denver, CO 80202
Project Contact: Joel Mason
Phone: 307-262-8975
Email: Joel.Mason@Absarokasolutions.com
Sampler(s) Name(s): Emily Fitzjohn

Project Information

Project Name: GWA_Griswold_27N_11HZ
Frequency: IN
Regulation: Voluntary
Facility ID: 772625
EQuIS Facility Code: 0089019-AN-GWABWQ
Client Purchase Order #: Pending
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)

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

Field ID / Point of Collection	Collection Date	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_Buffalo_58905_F	3/4/2024	10:47	EF	GW	17	9	6			1					1	X	X	X	X	X	X	X	X	X	X	X	01
SENW_12_1N_66W																											
Temperature, field	14.2	°C																									
pH, field	6.53	s.u.																									
Specific Conductivity, field	123.9	uS/cm																									
Oxidation Reduction Potential, field	75.1	mV																									
Dissolved Oxygen, field	1.65	mg/L																									
Turbidity, field	1.26	NTU																									

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 Michelle.Henry@absarokasolutions.com and Jordan.Fleming@Absarokasolutions.com

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

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1	3/4/24 18:00	1 3-4-24 1515	2		2
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
3		3	4		4

Custody Seal # Intact [x] Not Intact [ ] Absent [ ]
Preserved where applicable [x]
Cooler Temp. °C: 4.0 (4.0) Therm. ID: TM4
On Ice [x]

Form MSQA 064-01, RV 6/19/17

5.1 5

DA62610: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da62610 **Client:** ABSAROKA **Project:** GWA

Date / Time Received: 3/5/2024 3:15:00 PM **Delivery Method:** co **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

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: 3/5/2024 3:45:11 PM Reviewer: Date:

DA62610: Chain of Custody
Page 2 of 2

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: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3932-MB	5V80009.D	1	03/07/24	MB	n/a	n/a	V5V3932

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

DA62610-1

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	106%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Blank Spike Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3932-BS	5V80007.D	1	03/07/24	MB	n/a	n/a	V5V3932

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

DA62610-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	52.6	105	70-130
100-41-4	Ethylbenzene	50	51.0	102	70-130
108-88-3	Toluene	50	49.8	100	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	50.0	100	70-130
1330-20-7	Xylene (total)	150	152	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA62539-2MS	5V80011.D	10	03/07/24	MB	n/a	n/a	V5V3932
DA62539-2MSD	5V80012.D	10	03/07/24	MB	n/a	n/a	V5V3932
DA62539-2	5V80010.D	10	03/07/24	MB	n/a	n/a	V5V3932

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

DA62610-1

CAS No.	Compound	DA62539-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		500	520	104	500	523	105	1	70-130/30
100-41-4	Ethylbenzene	ND		500	513	103	500	499	100	3	70-130/30
108-88-3	Toluene	ND		500	498	100	500	485	97	3	70-130/30
	m,p-Xylene	ND		1000	1010	101	1000	981	98	3	70-130/30
95-47-6	o-Xylene	ND		500	503	101	500	492	98	2	70-130/30
1330-20-7	Xylene (total)	ND		1500	1520	101	1500	1470	98	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA62539-2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	107%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	105%	70-130%
2037-26-5	Toluene-D8	96%	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	99%	102%	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: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2849-MB	GA64373.D	1	03/10/24	JC	n/a	n/a	GGA2849

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

DA62610-1

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	122%	60-140%

Method Blank Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK341-MB	FK4653.D	1	03/11/24	MB	n/a	n/a	GFK341

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

DA62610-1A

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 Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2849-BS	GA64371.D	1	03/10/24	JC	n/a	n/a	GGA2849

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

DA62610-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	2.10	95	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	118%	60-140%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK341-BS	FK4654.D	10	03/11/24	MB	n/a	n/a	GFK341

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

DA62610-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
74-82-8	Methane	0.512	0.595	116	70-135
74-84-0	Ethane	0.923	1.18	128	70-147
74-98-6	Propane	1.38	1.67	121	70-140

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA62445-48MS	GA64374.D	1	03/10/24	JC	n/a	n/a	GGA2849
DA62445-48MSD	GA64375.D	1	03/10/24	JC	n/a	n/a	GGA2849
DA62445-48	GA64376.D	1	03/10/24	JC	n/a	n/a	GGA2849

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

DA62610-1

CAS No.	Compound	DA62445-48 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.0450	J	2.2	2.08	93	2.2	2.09	93	0	49-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA62445-48	Limits
120-82-1	1,2,4-Trichlorobenzene	120%	122%	125%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62610
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA62742-1MS	FK4661.D	10	03/11/24	MB	n/a	n/a	GFK341
DA62742-1MSD	FK4662.D	10	03/11/24	MB	n/a	n/a	GFK341
DA62742-1	FK4659.D	1	03/11/24	MB	n/a	n/a	GFK341
DA62742-1	FK4660.D	10	03/11/24	MB	n/a	n/a	GFK341

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

DA62610-1A

CAS No.	Compound	DA62742-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.833 [a]		0.512	1.32	93	0.512	1.31	91	1	15-200/30
74-84-0	Ethane	ND		0.923	0.714	77	0.923	0.708	77	1	64-147/30
74-98-6	Propane	ND		1.38	1.02	74	1.38	1.01	73	1	63-140/30

(a) Result is from Run #2.

* = 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: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

QC Batch ID: MP39042
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/15/24

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	0.087	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	1.4	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	16.8	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	3.0	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	7.0	<100
Manganese	1.0	.079	.51	0.083	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	3.7	<200
Selenium	0.40	.05	.1	0.0036	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	42.4	<500
Strontium	20	.1	5	0.038	<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 MP39042: DA62610-1F

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: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

QC Batch ID: MP39042 Methods: EPA 200.8
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/15/24

Metal	DA62589-2FA Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	6.8	400	400	98.3	70-130
Beryllium					
Boron	138	562	400	106.0	70-130
Cadmium	anr				
Calcium	44500	52800	5000	166.0(a)	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	20.1	1020	1000	100.0	70-130
Lead	anr				
Magnesium	4780	9380	5000	92.0	70-130
Manganese	10.4	212	200	100.8	70-130
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	13100	19400	5000	126.0	70-130
Selenium	0.20	205	200	102.4	70-130
Silver	anr				
Sodium	43800	51400	5000	152.0(a)	70-130
Strontium	118	214	100	96.0	70-130
Thallium					
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP39042: DA62610-1F

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: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

QC Batch ID: MP39042 Methods: EPA 200.8
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/15/24

Metal	DA62589-2FA Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	6.8	407	400	100.1	1.7	20
Beryllium						
Boron	138	570	400	108.0	1.4	20
Cadmium	anr					
Calcium	44500	52900	5000	168.0(a)	8.1	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	20.1	1040	1000	102.0	1.9	20
Lead	anr					
Magnesium	4780	9380	5000	92.0	0.0	20
Manganese	10.4	212	200	100.8	0.0	20
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	13100	19300	5000	124.0	8.1	20
Selenium	0.20	210	200	104.9	2.4	20
Silver	anr					
Sodium	43800	50900	5000	142.0(a)	2.4	20
Strontium	118	213	100	95.0	0.5	20
Thallium						
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP39042: DA62610-1F

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: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

QC Batch ID: MP39042
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/15/24

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	401	400	100.3	85-115
Beryllium				
Boron	423	400	105.8	85-115
Cadmium	anr			
Calcium	5140	5000	102.8	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	998	1000	99.8	85-115
Lead	anr			
Magnesium	5000	5000	100.0	85-115
Manganese	202	200	101.0	85-115
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	5310	5000	106.2	85-115
Selenium	207	200	103.5	85-115
Silver	anr			
Sodium	5310	5000	106.2	85-115
Strontium	99.1	100	99.1	85-115
Thallium				
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP39042: DA62610-1F

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: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN62814	5.0	0.0	mg/l	100	101	101.3	90-110%
Alkalinity, Carbonate	GN62815	5.0	0.0	mg/l	100	101	101.3	90-110%
Alkalinity, Total as CaCO3	GN62813	5.0	0.0	mg/l	100	101	101.3	90-110%
Bromide	GP36151/GN62819	0.050	0.0	mg/l	0.5	0.479	95.8	90-110%
Chloride	GP36151/GN62819	0.50	0.0	mg/l	5	4.98	99.6	90-110%
Fluoride	GP36151/GN62819	0.10	0.0	mg/l	1	0.950	95.0	90-110%
Iron-Related Bacteria	MB1743	25	0	CFU/ml				
Nitrogen, Nitrate	GP36151/GN62819	0.010	0.0	mg/l	0.1	0.0994	99.4	90-110%
Nitrogen, Nitrite	GP36151/GN62819	0.0040	0.0	mg/l	0.05	0.0515	103.0	90-110%
Phosphorus, Total	GP36147/GN62804	0.010	0.0	mg/l	0.2	0.202	101.0	90-110%
Slime Forming Bacteria	MB1739	500	0	CFU/ml				
Solids, Total Dissolved	GN62807	10	0.0	mg/l	250	232	92.8	90-110%
Specific Conductivity	GP36170/GN62833			umhos/cm	10000	1080	108.4	90-110%
Sulfate	GP36151/GN62819	0.50	0.0	mg/l	5	5.06	101.2	90-110%
Sulfate Reducing Bacteria	MB1741	200	0	CFU/ml				

Associated Samples:
Batch MB1739: DA62610-1B
Batch MB1741: DA62610-1B
Batch MB1743: DA62610-1B
Batch GN62807: DA62610-1
Batch GN62813: DA62610-1
Batch GN62814: DA62610-1
Batch GN62815: DA62610-1
Batch GP36147: DA62610-1
Batch GP36151: DA62610-1
Batch GP36170: DA62610-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN62813	DA62528-1	mg/l	208	210	1.2	0-20%
Iron-Related Bacteria	MB1743	DA62528-1B	CFU/ml	2200	2200	0.0	0-%
Phosphorus, Total	GP36147/GN62804	DA62663-1	mg/l	464	471	1.5	0-20%
Slime Forming Bacteria	MB1739	DA62528-1B	CFU/ml	<500	<500	0.0	0-%
Solids, Total Dissolved	GN62807	DA62660-1	mg/l	928	948	2.1	0-5.44%
Specific Conductivity	GP36170/GN62833	DA62766-1	umhos/cm	1200	1200	0.4	0-20%
Sulfate Reducing Bacteria	MB1741	DA62528-1B	CFU/ml	325	<200	47.6	0-%

Associated Samples:
Batch MB1739: DA62610-1B
Batch MB1741: DA62610-1B
Batch MB1743: DA62610-1B
Batch GN62807: DA62610-1
Batch GN62813: DA62610-1
Batch GP36147: DA62610-1
Batch GP36170: DA62610-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN62813	DA62528-1	mg/l	208	100	308	100.0	80-120%
Bromide	GP36151/GN62819	DA62610-1	mg/l	0.78	2.5	3.2	96.8	80-120%
Chloride	GP36151/GN62819	DA62610-1	mg/l	80.8	25	106	100.8	80-120%
Fluoride	GP36151/GN62819	DA62610-1	mg/l	1.8	5	6.9	102.0	80-120%
Nitrogen, Nitrate	GP36151/GN62819	DA62610-1	mg/l	0.0	0.5	0.49	98.0	80-120%
Nitrogen, Nitrite	GP36151/GN62819	DA62610-1	mg/l	0.0	0.25	0.14	56.0N(a)	80-120%
Phosphorus, Total	GP36147/GN62804	DA62663-1	mg/l	464	0.2	468(a)	2000.0(b)	90-110%
Sulfate	GP36151/GN62819	DA62610-1	mg/l	0.0	25	25.7	102.8	80-120%

Associated Samples:
Batch GN62813: DA62610-1
Batch GP36147: DA62610-1
Batch GP36151: DA62610-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA62610
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN62813	DA62528-1	mg/l	208	100	310	0.8	20%
Bromide	GP36151/GN62819	DA62610-1	mg/l	0.78	2.5	3.2	0.0	20%
Chloride	GP36151/GN62819	DA62610-1	mg/l	80.8	25	105	0.9	20%
Fluoride	GP36151/GN62819	DA62610-1	mg/l	1.8	5	6.8	1.5	20%
Nitrogen, Nitrate	GP36151/GN62819	DA62610-1	mg/l	0.0	0.5	0.48	2.1	20%
Nitrogen, Nitrite	GP36151/GN62819	DA62610-1	mg/l	0.0	0.25	0.14	0.0	20%
Phosphorus, Total	GP36147/GN62804	DA62663-1	mg/l	464	0.2	439(a)	6.4	20%
Sulfate	GP36151/GN62819	DA62610-1	mg/l	0.0	25	25.4	1.2	20%

Associated Samples:
Batch GN62813: DA62610-1
Batch GP36147: DA62610-1
Batch GP36151: DA62610-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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 #: DA62610

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City State Zip: Wheat Ridge, CO 80033
Project Contact: parna.eskandaripayandeh@sgs.com E-mail: parna.
Phone #: 303-425-6021 Fax #:
Sampler(s) Name(s): EF Phone:

Project Information

Project Name: Kerr-McGee: GWA_Griswold_27N_11HZ
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)

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

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROM1	LAB USE ONLY
1	BW_BUFFALO_58905_F SENW_12_1		3/4/24	10:47:00 AM	EF	AQ										X	2

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 3/12/2024

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

R.L. 0.19 mg/l required

(1AA 1)

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: 3/6/24	Received By: 1 Fedex	Relinquished By: 2 Fedex	Date Time: 03/7/24 0945	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 Seal # (Broken) [ ] Intact [ ] Not intact	Preserved where applicable [X] Therm. ID:	On Ice [ ] Cooler Temp (2.2 Rev 0)

10.1 10

DA62610: Chain of Custody
Page 1 of 3
SGS Scott, LA

10.1 10

DA62610: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: da62610 **Client:** SGS NORTH AMERICA **Project:** GWA

Date / Time Received: 3/7/2024 9:45:00 AM **Delivery Method:** FEDEXPRESS **Airbill #'s:** 646648977818

Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

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:	IRGUN		
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

SM089-03
Rev. Date 12/7/17

10.1 10

DA62610: Chain of Custody
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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: DA62610
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24741-MB	X0027366.D	1	03/09/24	JT	03/08/24	OP24741	GLB2650

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

DA62610-1

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	85%	51-122%

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA62610
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24741-BS	X0027367.D	1	03/09/24	JT	03/08/24	OP24741	GLB2650
OP24741-BSD	X0027368.D	1	03/09/24	JT	03/08/24	OP24741	GLB2650

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

DA62610-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	3	2.70	90	2.65	88	2	49-103/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	95%	97%	51-122%

* = Outside of Control Limits.