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Automated Report

Technical Report for

Kerr-McGee Oil & Gas Onshore LP

GWA_Meadow_Water_Well

FID:772527 Reg:Vol. Freq.:IN

SGS Job Number: DA61578

Sampling Date: 01/30/24

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ATTN: Distribution6

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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Test results relate only to samples analyzed.

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Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA61578

GWA_Meadow_Water_Well
Project No: FID:772527 Reg:Vol. Freq.:IN

Sample Number	Collected		Matrix		Client	
	Date	Time By	Received	Code Type	Sample ID	

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

DA61578-1	01/30/24	11:09 EF	01/31/24	AQ	Ground Water	BW_MEADOW_81474_F NWSW_10_1N_65W
DA61578-1A	01/30/24	11:09 EF	01/31/24	AQ	Ground Water	BW_MEADOW_81474_F NWSW_10_1N_65W
DA61578-1B	01/30/24	11:09 EF	01/31/24	AQ	Ground Water	BW_MEADOW_81474_F NWSW_10_1N_65W
DA61578-1F	01/30/24	11:09 EF	01/31/24	AQ	Groundwater Filtered	BW_MEADOW_81474_F NWSW_10_1N_65W

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Kerr-McGee Oil & Gas Onshore LP

Job No: DA61578

Site: GWA_Meadow_Water_Well

Report Date 2/14/2024 8:10:28 AM

On 01/31/2024, 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 DA61578 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: V5V3907

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61495-35MS, DA61495-35MSD were used as the QC samples indicated.

GC Volatiles By Method RSK175 MOD

Matrix: AQ

Batch ID: GFK333

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61537-1MS, DA61537-1MSD were used as the QC samples indicated.

GC Volatiles By Method SW846 8015D

Matrix: AQ

Batch ID: GGA2836

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA61495-67MS, DA61495-67MSD 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:OP24546

- The data for SW846 8015C meets quality control requirements.
- DA61578-1: Analysis performed at SGS Scott, LA.

Metals Analysis By Method EPA 200.8

Matrix: AQ

Batch ID: MP38829

- 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) DA61582-1FAMS, DA61582-1FAMSD 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.

Wednesday, February 14, 2024

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General Chemistry By Method EPA 300.0

Matrix: AQ

Batch ID: GP35917

- 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) DA61572-3MS, DA61572-3MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.
- DA61578-1 for Sulfate: Elevated detection limit due to matrix interference.
- DA61578-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.
- DA61578-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.

Matrix: AQ

Batch ID: R62511

- The data for EPA 300.0 meets quality control requirements.
- DA61578-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ

Batch ID: GP35947

- 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) DA61648-1DUP, DA61648-1MS, DA61648-1MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART-NOCERT

Matrix: AQ

Batch ID: MB1731

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61648-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- DA61578-1B for Iron-Related Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix: AQ

Batch ID: MB1730

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61648-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- DA61578-1B for Slime Forming Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ

Batch ID: MB1732

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61648-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- DA61578-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.

General Chemistry By Method SM 2320B-2011

Matrix: AQ

Batch ID: GN62542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61572-1DUP, DA61572-1MS, DA61572-1MSD were used as the QC samples for the Alkalinity, Total as CaCO₃ analysis.

Matrix: AQ

Batch ID: GN62543

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

Matrix: AQ

Batch ID: GN62544

- 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: GP35919

- Sample(s) DA61578-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ

Batch ID: GN62515

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61587-5DUP were used as the QC samples for the Solids, Total Dissolved analysis.

General Chemistry By Method SM1030E-2011

Matrix: AQ

Batch ID: GN62586

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

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ

Batch ID: GN62514

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA61578-1 Analysis performed past recommended hold time.

Field Data By Method FIELD

Matrix: AQ

Batch ID: R62502

- 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: DA61578

Site: ANADACOD: GWA Meadow Water Well

Report Date 2/9/2024 9:18:30 AM

On 02/02/2024, 1 sample was received at SGS North America Inc. (SGS) at a temperature of 5.1 °C. The sample was intact and properly preserved, unless noted below. An SGS Job Number of DA61578 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: OP24546

- 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.

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Summary of Hits

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Job Number: DA61578
Account: Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well
Collected: 01/30/24

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

DA61578-1 BW_MEADOW_81474_F NWSW_10_1N_65W

TPH-DRO (C10-C28) ^a	0.0163 J	0.19	0.016	mg/l	SW846 8015C
Fluoride	2.2	0.50		mg/l	EPA 300.0
Chloride	86.9	2.5		mg/l	EPA 300.0
Bromide	0.85	0.25		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO ₃	470	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate	50.0	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO ₃	520	5.0		mg/l	SM 2320B-2011
Cation Anion Balance	0.050			%	SM1030E-2011
Phosphorus, Total	0.066	0.010		mg/l	EPA 365.1
Solids, Total Dissolved	695	10		mg/l	SM 2540C-2011
Specific Conductivity	1280	1.0		umhos/cm	SM 2510B-2011
pH ^b	8.72			su	SM4500HB+ -2011/9040C
Specific Conductivity (Field)	1243.1	0.50		umhos/cm	FIELD
pH (Field)	8.83			su	FIELD
Oxygen, Dissolved (Field)	0.06			mg/l	FIELD
Turbidity	0.02			NTU	FIELD
Temperature (Field)	22.2			Deg. C	FIELD

DA61578-1A BW_MEADOW_81474_F NWSW_10_1N_65W

Methane	7.84	0.040	0.035	mg/l	RSK175 MOD
Ethane	0.0027	0.0016	0.0010	mg/l	RSK175 MOD

DA61578-1B BW_MEADOW_81474_F NWSW_10_1N_65W

Iron-Related Bacteria ^c	35000	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria ^c	< 500	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria ^c	325	200		CFU/ml	HC SRB-BART-NO CERT

DA61578-1F BW_MEADOW_81474_F NWSW_10_1N_65W

Barium	0.0581	0.0020		mg/l	EPA 200.8
Boron	0.474	0.040		mg/l	EPA 200.8
Calcium	1.33	0.40		mg/l	EPA 200.8
Iron	0.0474	0.020		mg/l	EPA 200.8
Magnesium	0.439	0.10		mg/l	EPA 200.8
Manganese	0.0021	0.0010		mg/l	EPA 200.8
Potassium	1.32	0.20		mg/l	EPA 200.8
Sodium	295	5.0		mg/l	EPA 200.8
Strontium	0.0707	0.020		mg/l	EPA 200.8

(a) Analysis performed at SGS Scott, LA.

(b) Analysis performed past recommended hold time.

Summary of Hits

Job Number: DA61578
Account: Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well
Collected: 01/30/24



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

(c) Certification for this test is not offered.



Wheat Ridge, CO

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W	Date Sampled:	01/30/24
Lab Sample ID:	DA61578-1	Date Received:	01/31/24
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GWA_Meadow_Water_Well		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V79478.D	1	02/02/24 19:58	MB	n/a	n/a	V5V3907
Run #2							

Run #	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	97%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

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

Report of Analysis

Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W			
Lab Sample ID:	DA61578-1			Date Sampled: 01/30/24
Matrix:	AQ - Ground Water			Date Received: 01/31/24
Method:	SW846 8015D			Percent Solids: n/a
Project:	GWA_Meadow_Water_Well			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA64000.D	1	02/02/24 21:21	JC	n/a	n/a	GGA2836
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	101%		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

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Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W		
Lab Sample ID:	DA61578-1	Date Sampled:	01/30/24
Matrix:	AQ - Ground Water	Date Received:	01/31/24
Method:	SW846 8015C SW846 3510C	Percent Solids:	n/a
Project:	GWA_Meadow_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X0026650.D	1	02/07/24 17:35	ALA	02/06/24 09:00	L:OP24546	L:GLB2632
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)	0.0163	0.19	0.016	mg/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		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

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Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W	Date Sampled:	01/30/24
Lab Sample ID:	DA61578-1	Date Received:	01/31/24
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GWA_Meadow_Water_Well		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	2.2	0.50	mg/l	5	01/31/24 19:15	CS	EPA 300.0
Chloride	86.9	2.5	mg/l	5	01/31/24 19:15	CS	EPA 300.0
Nitrogen, Nitrite ^a	< 0.020	0.020	mg/l	5	01/31/24 19:15	CS	EPA 300.0
Bromide	0.85	0.25	mg/l	5	01/31/24 19:15	CS	EPA 300.0
Nitrogen, Nitrate ^a	< 0.050	0.050	mg/l	5	01/31/24 19:15	CS	EPA 300.0
Sulfate ^a	< 2.5	2.5	mg/l	5	01/31/24 19:15	CS	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite ^b	< 0.070	0.070	mg/l	1	01/31/24 19:15	CS	EPA 300.0
Alkalinity, Bicarbonate as CaC	470	5.0	mg/l	1	02/05/24 12:00	JW	SM 2320B-2011
Alkalinity, Carbonate	50.0	5.0	mg/l	1	02/05/24 12:00	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	520	5.0	mg/l	1	02/05/24 12:00	JW	SM 2320B-2011
Cation Anion Balance	0.050		%	1	02/11/24	MB	SM1030E-2011
Phosphorus, Total	0.066	0.010	mg/l	1	02/06/24 14:36	KH	EPA 365.1
Solids, Total Dissolved	695	10	mg/l	1	02/01/24 07:00	JW	SM 2540C-2011
Specific Conductivity	1280	1.0	umhos/cm	1	02/01/24 12:00	JW	SM 2510B-2011
pH ^c	8.72		su	1	02/01/24 12:00	JW	SM4500HB+ -2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	0.06		mg/l	1	01/30/24 11:09	SUB	FIELD
Redox Potential Vs H2	-86.9		mv	1	01/30/24 11:09	SUB	FIELD
Specific Conductivity (Field)	1243.1	0.50	umhos/cm	1	01/30/24 11:09	SUB	FIELD
Temperature (Field)	22.2		Deg. C	1	01/30/24 11:09	SUB	FIELD
Turbidity	0.02		NTU	1	01/30/24 11:09	SUB	FIELD
pH (Field)	8.83		su	1	01/30/24 11:09	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_MEADOW_81474_F NWSW_10_1N_65W			Date Sampled:	01/30/24
Lab Sample ID:	DA61578-1A			Date Received:	01/31/24
Matrix:	AQ - Ground Water			Percent Solids:	n/a
Method:	RSK175 MOD				
Project:	GWA_Meadow_Water_Well				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FK4560.D	1	02/02/24 15:10	JC	n/a	n/a	GFK333
Run #2	FK4561.D	50	02/02/24 15:15	JC	n/a	n/a	GFK333

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	21.7 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	21.7 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	7.84 ^a	0.040	0.035	mg/l	
74-84-0	Ethane	0.0027	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 J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W	Date Sampled:	01/30/24
Lab Sample ID:	DA61578-1B	Date Received:	01/31/24
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GWA_Meadow_Water_Well		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria ^a	35000	25	CFU/ml	1	02/03/24 08:00	CS	HACH IRB-BART-NOCERT
Slime Forming Bacteria ^a	< 500	500	CFU/ml	1	02/03/24 08:00	CS	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria ^a	325	200	CFU/ml	1	02/03/24 08:00	CS	HC SRB-BART-NO CERT

(a) Certification for this test is not offered.

RL = Reporting Limit

4.3
4

Report of Analysis

Client Sample ID:	BW_MEADOW_81474_F NWSW_10_1N_65W	Date Sampled:	01/30/24
Lab Sample ID:	DA61578-1F	Date Received:	01/31/24
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GWA_Meadow_Water_Well		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	0.0581	0.0020	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Boron	0.474	0.040	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Calcium	1.33	0.40	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Iron	0.0474	0.020	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Magnesium	0.439	0.10	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Manganese	0.0021	0.0010	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Potassium	1.32	0.20	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Selenium	< 0.00040	0.00040	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³
Sodium	295	5.0	mg/l	10	02/05/24	02/07/24 DU	EPA 200.8 ²	EPA 200.8 ³
Strontium	0.0707	0.020	mg/l	1	02/05/24	02/06/24 DU	EPA 200.8 ¹	EPA 200.8 ³

- (1) Instrument QC Batch: MA17640
- (2) Instrument QC Batch: MA17643
- (3) Prep QC Batch: MP38829

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

Page 1 of 1

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 # DA61578
Client / Reporting Information	
Company: (Report to) Absaroka Solutions	
Project Name: GWA_Meadow_Water_Well Frequency: IN	
Street: 112 High Street	
City, State: Buffalo, NY 14204	
Project Contact: Jordan Fleming	
Phone: 720-244-8469	
Email: Joel.mason@absarokasolutions.com	
Sampler(s) Name(s): Emily Fitzjohn	
Project Manager: Joel Mason	
Attention: Erik Mickelson User ID: fvv451	
Billing Information (if different from Report to)	
Company: Occidental Petroleum Corporation (OXY)	
Facility ID: 772527	
EQUIS Facility Code: 0089019-AN-GWABWQ	
Client Purchase Order #: 4500641679	
Street Address: 1201 Lake Robbins Drive	
City, State ZIP: The Woodlands, TX 77380	
Requested Analysis (see TEST CODE sheet)	
Matrix Codes	
LAB USE ONLY	
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	
PH, SCOR, TDS	
XCARBICALK	
BRO, CHL, F, NO2, XNO30, NO32, SO4	
TPO4	
Dissolved Metals - Lab Filtered*	
VRSK7SDGMEP	
V8260BTX	
B8015DRO	
V8015GRO	
IRBAC, SFBAC, SOARBAC	
CABAL	
LAB USE ONLY	
Turnaround Time (Business days)	
Special Reporting Instructions	
Data Deliverable Information	
Comments / Special Instructions	
Sample Custody must be documented below each time samples change possession, including courier delivery.	
Relinquished by Sampler	
Received By	
Relinquished by Sampler	
Received By	
Custody Seal #	
Intact	
Not intact	
Absent	
Preserved where applicable	
Cooler Temp. °C	
Therm. ID	
On ice	
Form M50A 064-01, RV 6/19/17	
http://www.sgs.com/terms-and-conditions	

DA61578: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: da61578

Client: ABSAROKA SOLUTIONS

Project: GWA_MEADOWS_WATER_WELL

Date / Time Received: 1/31/2024 12:30:00 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: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification: | | IR Gun |
| 5. Cooler media: | | Ice (Bag) |

Trip Blank Information

Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

W or S N/A

- | | | | |
|------------------------|-------------------------------------|--------------------------|--------------------------|
| 3. Type of TB Received | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|------------------------|-------------------------------------|--------------------------|--------------------------|

Sample Information

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples presented properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recv'd for analysis | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample: | | Intact | |
| 5. Sample recv'd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match sample label | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. % Solids Jar Received? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals:

Test Strip Lot #: pH 0-3: _____

pH 10-12: _____ Other: (Specify) _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001

Rev. Date 05/04/17

Technician: JEREMYD

Date: 1/31/2024 1:36:19 PM

Reviewer: _____

Date: _____

DA61578: Chain of Custody

Page 2 of 2

MS 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: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3907-MB	5V79457A.D	1	02/02/24	MB	n/a	n/a	V5V3907

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

DA61578-1

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	95% 70-130%
17060-07-0	1,2-Dichloroethane-D4	98% 70-130%
2037-26-5	Toluene-D8	100% 70-130%
460-00-4	4-Bromofluorobenzene	99% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: DA61578

Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP

Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3907-BS	5V79455A.D	1	02/02/24	MB	n/a	n/a	V5V3907

The QC reported here applies to the following samples:

Method: SW846 8260B

DA61578-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.8	94	70-130
100-41-4	Ethylbenzene	50	48.7	97	70-130
108-88-3	Toluene	50	48.3	97	70-130
	m,p-Xylene	100	94.7	95	70-130
95-47-6	o-Xylene	50	47.3	95	70-130
1330-20-7	Xylene (total)	150	142	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
17060-07-0	1,2-Dichloroethane-D4	95%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA61495-35MS	5V79462A.D	1	02/02/24	MB	n/a	n/a	V5V3907
DA61495-35MSD	5V79463A.D	1	02/02/24	MB	n/a	n/a	V5V3907
DA61495-35	5V79461A.D	1	02/02/24	MB	n/a	n/a	V5V3907

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

DA61578-1

CAS No.	Compound	DA61495-35 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	48.2	96	50	48.3	97	0	70-130/30
100-41-4	Ethylbenzene	ND	50	48.3	97	50	49.3	99	2	70-130/30
108-88-3	Toluene	ND	50	47.8	96	50	48.3	97	1	70-130/30
	m,p-Xylene	ND	100	95.5	96	100	96.2	96	1	70-130/30
95-47-6	o-Xylene	ND	50	47.5	95	50	48.4	97	2	70-130/30
1330-20-7	Xylene (total)	ND	150	143	95	150	145	97	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA61495-35 Limits
1868-53-7	Dibromofluoromethane	96%	95%	95% 70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	93%	96% 70-130%
2037-26-5	Toluene-D8	98%	98%	99% 70-130%
460-00-4	4-Bromofluorobenzene	96%	94%	98% 70-130%

* = Outside of Control Limits.

GC Volatiles**QC Data Summaries**

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Includes the following where applicable:

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

Method Blank Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2836-MB	GA63989.D	1	02/02/24	JC	n/a	n/a	GGA2836

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

DA61578-1

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	106% 60-140%

Method Blank Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK333-MB	FK4549.D	1	02/02/24	JC	n/a	n/a	GFK333

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

DA61578-1A

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	

7.1.2
7

Blank Spike Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2836-BS	GA63987.D	1	02/02/24	JC	n/a	n/a	GGA2836

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

DA61578-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	2.33	106	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	60-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK333-BS	FK4550.D	10	02/02/24	JC	n/a	n/a	GFK333
GFK333-BSD	FK4551.D	10	02/02/24	JC	n/a	n/a	GFK333

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA61578-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.512	0.605	118	0.610	119	1	70-135/30
74-84-0	Ethane	0.923	1.20	130	1.21	131	1	70-147/30
74-98-6	Propane	1.38	1.69	123	1.71	124	1	70-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA61495-67MS	GA63990.D	1	02/02/24	JC	n/a	n/a	GGA2836
DA61495-67MSD	GA63991.D	1	02/02/24	JC	n/a	n/a	GGA2836
DA61495-67	GA63992.D	1	02/02/24	JC	n/a	n/a	GGA2836

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

DA61578-1

CAS No.	Compound	DA61495-67		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits
		mg/l	Q	mg/l	mg/l	%	mg/l	mg/l	%		Rec/RPD
	TPH-GRO (C6-C10)	0.0414	J	2.2	2.26	101	2.2	2.25	100	0	49-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA61495-67	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	103%	105%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA61578
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA61537-1MS	FK4553.D	10	02/02/24	JC	n/a	n/a	GFK333
DA61537-1MSD	FK4554.D	10	02/02/24	JC	n/a	n/a	GFK333
DA61537-1	FK4552.D	1	02/02/24	JC	n/a	n/a	GFK333

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA61578-1A

CAS No.	Compound	DA61537-1 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.0012	0.512	0.574	112	0.512	0.579	113	1	15-200/30
74-84-0	Ethane	ND	0.923	1.15	125	0.923	1.16	126	1	64-147/30
74-98-6	Propane	ND	1.38	1.61	117	1.38	1.62	118	1	63-140/30

* = 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: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

QC Batch ID: MP38829
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 02/05/24

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	0.071	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	4.4	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	0.90	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	3.7	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	8.4	<100
Manganese	1.0	.079	.51	0.14	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-6.8	<200
Selenium	0.40	.05	.1	0.0028	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	10.9	<500
Strontium	20	.1	5	0.17	<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 MP38829: DA61578-1F

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: DA61578
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Meadow_Water_Well

QC Batch ID: MP38829
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 02/05/24

Metal	DA61582-1FA Original MS		Spikelot ICPMS5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	36.3	432	400	98.9	70-130
Beryllium					
Boron	45.6	464	400	104.6	70-130
Cadmium	anr				
Calcium	272000	321000	5000	980.0(a)	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	26.9	1010	1000	98.3	70-130
Lead	anr				
Magnesium	22500	27000	5000	90.0	70-130
Manganese	4100	4290	200	95.0	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	5140	9360	5000	84.4	70-130
Selenium	20.3	218	200	98.9	70-130
Silver	anr				
Sodium	151000	189000	5000	760.0(a)	70-130
Strontium	686	787	100	101.0	70-130
Thallium					
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP38829: DA61578-1F

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: DA61578
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Meadow_Water_Well

QC Batch ID: MP38829
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 02/05/24

	DA61582-1FA		Spikelot		MSD	QC
Metal	Original MSD		ICPMS5	% Rec	RPD	Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	36.3	450	400	103.4	4.1	20
Beryllium						
Boron	45.6	493	400	111.9	6.1	20
Cadmium	anr					
Calcium	272000	320000	5000	960.0(a)	14.0	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	26.9	1090	1000	106.3	7.6	20
Lead	anr					
Magnesium	22500	30100	5000	152.0(a)	10.9	20
Manganese	4100	4520	200	210.0(a)	5.2	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	5140	10100	5000	99.2	7.6	20
Selenium	20.3	223	200	101.4	2.3	20
Silver	anr					
Sodium	151000	187000	5000	720.0(a)	14.9	20
Strontium	686	883	100	197.0(a)	11.5	20
Thallium						
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP38829: DA61578-1F

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: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

QC Batch ID: MP38829
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 02/05/24

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	409	400	102.3	85-115
Beryllium				
Boron	427	400	106.8	85-115
Cadmium	anr			
Calcium	4760	5000	95.2	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	965	1000	96.5	85-115
Lead	anr			
Magnesium	4910	5000	98.2	85-115
Manganese	192	200	96.0	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	5030	5000	100.6	85-115
Selenium	203	200	101.5	85-115
Silver	anr			
Sodium	4900	5000	98.0	85-115
Strontium	99.6	100	99.6	85-115
Thallium				
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP38829: DA61578-1F

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: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN62543	5.0	0.0	mg/l	100	98.8	98.8	90-110%
Alkalinity, Carbonate	GN62544	5.0	0.0	mg/l	100	98.8	98.8	90-110%
Alkalinity, Total as CaCO3	GN62542	5.0	0.0	mg/l	100	98.8	98.8	90-110%
Bromide	GP35917/GN62511	0.050	0.0	mg/l	0.5	0.504	100.8	90-110%
Chloride	GP35917/GN62511	0.50	0.0	mg/l	5	5.08	101.6	90-110%
Fluoride	GP35917/GN62511	0.10	0.0	mg/l	1	1.02	102.0	90-110%
Iron-Related Bacteria	MB1731	25	<25	CFU/ml				
Nitrogen, Nitrate	GP35917/GN62511	0.010	0.0	mg/l	0.1	0.0979	97.9	90-110%
Nitrogen, Nitrite	GP35917/GN62511	0.0040	0.0	mg/l	0.05	0.0482	96.4	90-110%
Phosphorus, Total	GP35947/GN62548	0.010	0.0	mg/l	0.2	0.213	106.5	90-110%
Slime Forming Bacteria	MB1730	500	<500	CFU/ml				
Solids, Total Dissolved	GN62515	10	0.0	mg/l	250	240	96.0	90-110%
Specific Conductivity	GP35919/GN62513			umhos/cm	10000	1080	108.6	90-110%
Sulfate	GP35917/GN62511	0.50	0.0	mg/l	5	5.12	102.4	90-110%
Sulfate Reducing Bacteria	MB1732	200	<200	CFU/ml				

Associated Samples:

Batch MB1730: DA61578-1B
Batch MB1731: DA61578-1B
Batch MB1732: DA61578-1B
Batch GN62515: DA61578-1
Batch GN62542: DA61578-1
Batch GN62543: DA61578-1
Batch GN62544: DA61578-1
Batch GP35917: DA61578-1
Batch GP35919: DA61578-1
Batch GP35947: DA61578-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN62542	DA61572-1	mg/l	80.0	77.5	3.2	0-20%
Iron-Related Bacteria	MB1731	DA61648-1B	CFU/ml	150	150	0.0	0-%
Phosphorus, Total	GP35947/GN62548	DA61648-1	mg/l	0.046	0.046	0.0	0-20%
Slime Forming Bacteria	MB1730	DA61648-1B	CFU/ml	<500	<500	0.0	0-%
Solids, Total Dissolved	GN62515	DA61587-5	mg/l	8860	8970	1.2	0-5.44%
Specific Conductivity	GP35919/GN62513	DA61578-1	umhos/cm	1280	1280	0.3	0-20%
Sulfate Reducing Bacteria	MB1732	DA61648-1B	CFU/ml	<200	<200	0.0	0-%

Associated Samples:

Batch MB1730: DA61578-1B
Batch MB1731: DA61578-1B
Batch MB1732: DA61578-1B
Batch GN62515: DA61578-1
Batch GN62542: DA61578-1
Batch GP35919: DA61578-1
Batch GP35947: DA61578-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO ₃	GN62542	DA61572-1	mg/l	80.0	100	173	92.5	80-120%
Bromide	GP35917/GN62511	DA61572-3	mg/l	0.084	12.5	12.0	96.0	80-120%
Chloride	GP35917/GN62511	DA61572-3	mg/l	110	125	240	104.0	80-120%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	0.42	25	24.6	98.4	80-120%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	0.44	25	24.6	98.4	80-120%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	1.3 U	25	24.6	98.4	80-120%
Nitrogen, Nitrate	GP35917/GN62511	DA61572-3	mg/l	0.72	2.5	3.2	99.2	80-120%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.075 U	1.25	1.1	88.0	80-120%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.0030 U	1.25	1.1	88.0	80-120%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.015 U	1.25	1.1	88.0	80-120%
Phosphorus, Total	GP35947/GN62548	DA61648-1	mg/l	0.046	0.2	0.25	102.0	90-110%
Sulfate	GP35917/GN62511	DA61572-3	mg/l	69.1	125	195	100.7	80-120%

Associated Samples:

Batch GN62542: DA61578-1

Batch GP35917: DA61578-1

Batch GP35947: DA61578-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

9.3

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MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA61578
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Meadow_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO ₃	GN62542	DA61572-1	mg/l	80.0	100	170	1.5	20%
Bromide	GP35917/GN62511	DA61572-3	mg/l	0.084	12.5	11.9	0.8	20%
Chloride	GP35917/GN62511	DA61572-3	mg/l	110	125	239	0.4	20%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	0.42	25	24.4	0.8	20%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	0.44	25	24.4	0.8	20%
Fluoride	GP35917/GN62511	DA61572-3	mg/l	1.3 U	25	24.4	0.8	20%
Nitrogen, Nitrate	GP35917/GN62511	DA61572-3	mg/l	0.72	2.5	3.1	3.2	20%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.075 U	1.25	1.1	0.0	20%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.0030 U	1.25	1.1	0.0	20%
Nitrogen, Nitrite	GP35917/GN62511	DA61572-3	mg/l	0.015 U	1.25	1.1	0.0	20%
Phosphorus, Total	GP35947/GN62548	DA61648-1	mg/l	0.046	0.2	0.25	0.0	20%
Sulfate	GP35917/GN62511	DA61572-3	mg/l	69.1	125	195	0.0	20%

Associated Samples:

Batch GN62542: DA61578-1

Batch GP35917: DA61578-1

Batch GP35947: DA61578-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

9.4

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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

Page 1 of 1

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes									
Company Name: SGS North America Inc.		Project Name: GWA_Meadow_Water_Well														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									
Street Address: 4036 Youngfield Street		Street:																							
City State Zip: Wheat Ridge, CO 80033		Billing Information (if different from Report to) City State Company Name																							
Project Contact E-mail: parna.eskandaripayandeh@sgs.com		Project #																							
Phone #: 303-425-6021		Client Purchase Order #																							
Sampler(s) Name(s): EF		Project Manager		Matrix												LAB USE ONLY									
Field ID / Point of Collection		MEOH/DI Vial #		Date		Time		Sampled by		Matrix		# of bottles		Number of preserved Bottles											
1 BW_MEADOW_81474_F NWSW_10_1				1/30/24		11:09:00 AM		EF		AQ				X											
Turnaround Time (Business days)		Approved By (SGS PM): / Date:		Data Deliverable Information												Comments / Special Instructions									
<input type="checkbox"/> Standard 10 Day (business) <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> other Due 2/7/2024 Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> REDT1 (Level 3) <input type="checkbox"/> FULT1 (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> State Forms <input type="checkbox"/> EDO Format <input type="checkbox"/> Other <input checked="" type="checkbox"/> CC Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data												R.L. 019 mg/l required, MDL 0.18 mg/l required. 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:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:													
1		2/1/24		Fedex		2/2/24 1030		Fedex		2/2/24 1030		UB													
3				3				4				4													
5				5				Custody Seal #				Intact		Therm. ID: 12001											
								Intact				Preserved where applicable		On Ice											
								Not Intact						Cooler Temp. 5.1											

DA61578: Chain of Custody

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SGS Scott, LA



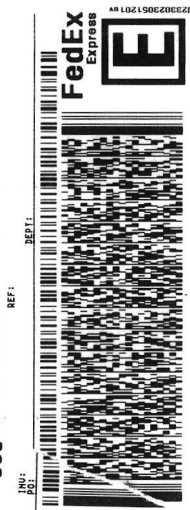
ORIGIN ID: DEUR (303) 425-6021
 AT: TERT PENULT
 SSS - WHEAT RIDGE
 4086 YOUNGFIELD STREET
 WHEAT RIDGE, CO 80033
 UNITED STATES US

SHIP DATE: 01FEB24
 ACTWT: 30.00 LB TAN
 CAD: 0859493/CAFE3755

BILL SENDER

TO **SAMPLE RECEIVING**
ACCUTEST LOUISIANA
500 AMBASSADOR CAFFERY DRIVE

SCOTT LA 70583



FRI - 02 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 6466 4896 5836

XH LFTA

70583
LA-US LFT



DA61578: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: DA61578

Client: SGS NORTH AMERICA INC

Project: GWA_MEADOW_WATER_WELL

Date / Time Received: 2/2/2024 10:30:00 AM

Delivery Method: FEDEX

Airbill #s: 646648965836

Cooler Temps (Raw Measured) °C: Cooler 1: (5.1);

Cooler Temps (Corrected) °C: Cooler 1: (5.1);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | Ice (direct contact) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

Comments

SM089-03
Rev. Date 12/7/17

DA61578: 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: DA61578
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24546-MB	X0026646.D	1	02/07/24	JT	02/06/24	OP24546	GLB2632

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

DA61578-1

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	87% 51-122%

11.1.1
11

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA61578
Account: ALMS SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Meadow_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24546-BS	X0026647.D	1	02/07/24	JT	02/06/24	OP24546	GLB2632
OP24546-BSD	X0026648.D	1	02/07/24	JT	02/06/24	OP24546	GLB2632

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

DA61578-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	3	2.73	91	2.55	85	7	49-103/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	95%	87%	51-122%

* = Outside of Control Limits.