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Automated Report

Technical Report for

Kerr-McGee Oil & Gas Onshore LP

GWA_Krumpeck_Water_Well

FID:753144 Reg:Vol. Freq.:SP

SGS Job Number: DA49526

Sampling Date: 09/27/22



Report to:

Kerr-McGee Oil & Gas Onshore LP
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Total number of pages in report: 18



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.

Rebecca L Nichols

Rebecca Nichols
General Manager

Client Service contact: Laurie Peterson-Wright 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011), NV (CO00049)

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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: DA49526

GWA_Krumpeck_Water_Well

Project No: FID:753144 Reg:Vol. Freq.:SP

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

DA49526-1	09/27/22	11:22	EF	09/28/22	AQ	Trip Blank Water	BW_RISSLER_217161_TRIP_BLANK
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CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Kerr-McGee Oil & Gas Onshore LP

Job No: DA49526

Site: GWA_Krumpeck_Water_Well

Report Date 10/7/2022 4:36:30 PM

On 09/28/2022, 0 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA49526 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: V5V3492
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method SW846 8015D

Matrix: AQ	Batch ID: GGA2649
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- 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: DA49526
Account: Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Krumpeck_Water_Well
Collected: 09/27/22



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA49526-1 BW_RISSLER_217161_TRIP_BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BW_RISSLER_217161_TRIP_BLANK	Date Sampled: 09/27/22
Lab Sample ID: DA49526-1	Date Received: 09/28/22
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GWA_Krumpeck_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V70311.D	1	10/02/22 13:45	MB	n/a	n/a	V5V3492
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	100%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		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

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Report of Analysis

Client Sample ID: BW_RISSLER_217161_TRIP_BLANK	Date Sampled: 09/27/22
Lab Sample ID: DA49526-1	Date Received: 09/28/22
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8015D	
Project: GWA_Krumpeck_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA59135.D	1	10/04/22 07:03	MB	n/a	n/a	GGA2649
Run #2							

Run #	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	112%		60-140%		

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

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

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

Table with 2 columns: Bottle Order Control #, FED-EX Tracking #; SGS Quote #, SGS Job # DA49526

Main data entry table with columns: Client/Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes. Includes fields for Company, Project Name, Street, City, State, Project Contact, Phone, Email, Sampler Name, Project Manager, Attention, and a large grid for collection data.

Turnaround Time (Business days) and Data Deliverable Information section. Includes checkboxes for Std. 10 Business Days, 5 Day RUSH, 3 Day Emergency, 2 Day Emergency, 1 Day Emergency, and various reporting options like Report in PPB, Report in PPM, Report MDLs, Commercial 'A' and 'B', COMMBN+, COMMBN+, REDT2, FULT1, and EDD Format: COGCC Compatible.

Sample Custody section with a table for documenting time samples change possession, including courier delivery. Columns include Relinquished by Sampler, Date/Time, Received By, and Cooler Temp. Includes checkboxes for Intact, Not Intact, Absent, Preserved where applicable, Cooler Temp, Therm. ID, and On Ice.

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DA49526: Chain of Custody

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SGS Sample Receipt Summary

Job Number: DA49526

Client: ABSAROKA

Project: BARCLAY

Date / Time Received: 9/28/2022 11:30:00 AM

Delivery Method: CO

Airbill #s: _____

Cooler Temps (Initial/Adjusted): #0: (4.3/4.3):

Cooler Security

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:

- Y or N
- 3. COC Present:
 - 4. Smpl Dates/Time OK:

Cooler Temperature

Y or N

- 1. Temp criteria achieved:
- 2. Thermometer ID: IR Gun;
- 3. Cooler media: Ice (Bag)
- 4. No. Coolers: 0

Quality Control Preservation

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:
- 3. Samples preserved properly:
- 4. VOCs headspace free:

Comments

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:

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DA49526: Chain of Custody

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Problem Resolution

Job Number: DA49526

Page 2 of 2

CSR: _____

Response Date: _____

Response:

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DA49526: Chain of Custody
Page 3 of 3

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: DA49526
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Krumpeck_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3492-MB	5V70299.D	1	10/02/22	MB	n/a	n/a	V5V3492

The QC reported here applies to the following samples:

Method: SW846 8260B

DA49526-1

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	98% 70-130%
17060-07-0	1,2-Dichloroethane-D4	99% 70-130%
2037-26-5	Toluene-D8	99% 70-130%
460-00-4	4-Bromofluorobenzene	103% 70-130%

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Blank Spike/Blank Spike Duplicate Summary

Job Number: DA49526
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Krumpeck_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3492-BS	5V70296.D	1	10/02/22	MB	n/a	n/a	V5V3492
V5V3492-BSD	5V70297.D	1	10/02/22	MB	n/a	n/a	V5V3492

The QC reported here applies to the following samples:

Method: SW846 8260B

DA49526-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	53.9	108	53.9	108	0	70-130/30
100-41-4	Ethylbenzene	50	56.3	113	56.9	114	1	70-130/30
108-88-3	Toluene	50	53.8	108	54.2	108	1	70-130/30
	m,p-Xylene	100	110	110	112	112	2	70-130/30
95-47-6	o-Xylene	50	55.1	110	55.9	112	1	70-130/30
1330-20-7	Xylene (total)	150	165	110	168	112	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	97%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	70-130%
2037-26-5	Toluene-D8	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	97%	101%	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: DA49526
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Krumpeck_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2649-MB	GA59134.D	1	10/04/22	MB	n/a	n/a	GGA2649

The QC reported here applies to the following samples:

Method: SW846 8015D

DA49526-1

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	110% 60-140%

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Blank Spike/Blank Spike Duplicate Summary

Job Number: DA49526
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Krumpeck_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2649-BS	GA59131.D	1	10/04/22	MB	n/a	n/a	GGA2649
GGA2649-BSD	GA59132.D	1	10/04/22	MB	n/a	n/a	GGA2649

The QC reported here applies to the following samples:

Method: SW846 8015D

DA49526-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	2.2	1.91	87	1.95	89	2	49-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
120-82-1	1,2,4-Trichlorobenzene	113%	115%	60-140%

* = Outside of Control Limits.

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