

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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**Kerr-McGee Oil & Gas Onshore LP**

**GWA\_Meadow\_Water\_Well**

**FID:772527 Reg:Vol. Freq.:IN**

**SGS Job Number: DA61580**

**Sampling Date: 01/30/24**

### Report to:

**tanya.cude@absarokasolutions.com**  
**joel.mason@absarokasolutions.com**  
**michelle.henry@absarokasolutions.com**  
**jordan.fleming@absarokasolutions.com**

**ATTN: Distribution6**

**Total number of pages in report: 19**



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.

A handwritten signature in black ink, appearing to read "Eric Hoffman".

**Eric Hoffman**

**Client Service contact: Parna Payandeh 303-425-6021**

Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Case Narrative/Conformance Summary</b> .....	<b>4</b>
<b>Section 3: Summary of Hits</b> .....	<b>5</b>
<b>Section 4: Sample Results</b> .....	<b>6</b>
<b>4.1: DA61580-1: BW_MEADOW_81474_F_TRIP_BLANK</b> .....	7
<b>Section 5: Misc. Forms</b> .....	<b>9</b>
<b>5.1: Chain of Custody</b> .....	10
<b>Section 6: MS Volatiles - QC Data Summaries</b> .....	<b>12</b>
<b>6.1: Method Blank Summary</b> .....	13
<b>6.2: Blank Spike Summary</b> .....	14
<b>6.3: Matrix Spike/Matrix Spike Duplicate Summary</b> .....	15
<b>Section 7: GC Volatiles - QC Data Summaries</b> .....	<b>16</b>
<b>7.1: Method Blank Summary</b> .....	17
<b>7.2: Blank Spike Summary</b> .....	18
<b>7.3: Matrix Spike/Matrix Spike Duplicate Summary</b> .....	19

1

2

3

4

5

6

7



## Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA61580

GWA\_Meadow\_Water\_Well

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

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

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

---

DA61580-1	01/30/24	11:09	EF	01/31/24	AQ	Trip Blank Water	BW_MEADOW_81474_F_TRIP_BLANK
-----------	----------	-------	----	----------	----	------------------	------------------------------

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Kerr-McGee Oil & Gas Onshore LP

**Job No:** DA61580

**Site:** GWA\_Meadow\_Water\_Well

**Report Date** 2/8/2024 5:56:44 AM

On 01/31/2024, 0 sample(s), 1 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 DA61580 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

<b>Matrix:</b> AQ	<b>Batch ID:</b> 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 SW846 8015D

<b>Matrix:</b> AQ	<b>Batch ID:</b> GGA2836
-------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA61495-67MS, DA61495-67MSD were used as the QC samples indicated.

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:** DA61580  
**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
---------------	------------------	-----------------	----	-----	-------	--------

DA61580-1      BW\_MEADOW\_81474\_F\_TRIP\_BLANK

No hits reported in this sample.

**Sample Results**

---

**Report of Analysis**

---

## Report of Analysis

<b>Client Sample ID:</b> BW_MEADOW_81474_F_TRIP_BLANK	<b>Date Sampled:</b> 01/30/24
<b>Lab Sample ID:</b> DA61580-1	<b>Date Received:</b> 01/31/24
<b>Matrix:</b> AQ - Trip Blank Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B	
<b>Project:</b> GWA_Meadow_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V79470.D	1	02/02/24 16:41	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	98%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	96%		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

4.1  
4

## Report of Analysis

<b>Client Sample ID:</b> BW_MEADOW_81474_F_TRIP_BLANK <b>Lab Sample ID:</b> DA61580-1 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> SW846 8015D <b>Project:</b> GWA_Meadow_Water_Well	<b>Date Sampled:</b> 01/30/24 <b>Date Received:</b> 01/31/24 <b>Percent Solids:</b> n/a
---	---

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA63995.D	1	02/02/24 18:11	JC	n/a	n/a	GGA2836
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	106%		60-140%		

---

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

4.1  
4

**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

Bottle Order Control: #
FED-EX Tracking #
SGS Quote #
SGS Job # DA61580

Client / Reporting Information
Project Information
Requested Analysis (see TEST CODE sheet)
Matrix Codes
Collection
Data Deliverable Information
Comments / Special Instructions
Turnaround Time (Business days)
Sample Custody must be documented below each time samples change possession, including courier delivery.

5.1
5

DA61580: Chain of Custody

Page 1 of 2



## SGS Sample Receipt Summary

Job Number: da61580

Client: ABSAROKA SOLUTIONS

Project: GWA\_MEADOW\_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:
- 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. Sufficient 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 #: 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 2:04:36 PM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

DA61580: Chain of Custody

Page 2 of 2

5.1  
5

## 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: DA61580  
 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

DA61580-1

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%

6.1.1  
6

# Blank Spike Summary

Job Number: DA61580  
 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

DA61580-1

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: DA61580  
 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

DA61580-1

CAS No.	Compound	DA61495-35 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l		%
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

---

**Includes the following where applicable:**

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

# Method Blank Summary

**Job Number:** DA61580  
**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

DA61580-1

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%

7.1.1  
7

# Blank Spike Summary

Job Number: DA61580  
 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

DA61580-1

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.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA61580  
 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

DA61580-1

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.