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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: DA62612

Sampling Date: 03/04/24

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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)

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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: DA62612-1: BW_BUFFALO_58905_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

**Occidental Petroleum Corporation**

**Job No: DA62612**

**Kerr-McGee: GWA\_Griswold\_27N\_11HZ**  
**Project No: FID:772625 Reg:Vol. Freq.:IN**

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

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DA62612-1	03/04/24	10:47	EF	03/05/24	AQ	Trip Blank Water	BW_BUFFALO_58905_F_TRIP_BLA NK
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## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Occidental Petroleum Corporation

**Job No:** DA62612

**Site:** Kerr-McGee: GWA\_Griswold\_27N\_11HZ

**Report Date** 3/13/2024 7:01:26 AM

On 03/05/2024, 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 DA62612 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> V5V3932
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62539-2MS, DA62539-2MSD were used as the QC samples indicated.

### GC Volatiles By Method SW846 8015D

<b>Matrix:</b> AQ	<b>Batch ID:</b> GGA2847
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62445-30MS, DA62445-30MSD 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:** DA62612  
**Account:** Occidental Petroleum Corporation  
**Project:** Kerr-McGee: GWA\_Griswold\_27N\_11HZ  
**Collected:** 03/04/24



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA62612-1      BW\_BUFFALO\_58905\_F\_TRIP\_BLANK

No hits reported in this sample.

**Sample Results**

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**Report of Analysis**

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### Report of Analysis

<b>Client Sample ID:</b> BW_BUFFALO_58905_F_TRIP_BLANK	<b>Date Sampled:</b> 03/04/24
<b>Lab Sample ID:</b> DA62612-1	<b>Date Received:</b> 03/05/24
<b>Matrix:</b> AQ - Trip Blank Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8015D	
<b>Project:</b> Kerr-McGee: GWA_Griswold_27N_11HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA64315.D	1	03/07/24 17:53	MB	n/a	n/a	GGA2847
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	121%		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

4.1  
4

**Misc. Forms**

**Custody Documents and Other Forms**

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**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.acculest.com

Form containing client information, project details, requested analysis (PH, SCOM, TDS, etc.), collection data, and turnaround time options.

Table with columns for Client/Reporting Information, Project Information, and Collection. Includes fields for Company, Project Name, Street, City, State, Project Contact, and various collection parameters like Date, Time, Matrix, and # of bottles.

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 options for 'Commercial A/B', 'COMMBN', 'COMMBN+', 'REDT2', 'FULT1', and 'EDD Format: COGCC Compatible'.

Sample Custody tracking section. Includes fields for Relinquished by Sampler, Date/Time, Received By, and Date/Time for multiple samples (1, 2, 3, 4). Also includes 'Custody Seal #' and 'Preserved where applicable' checkboxes.

DA62612: Chain of Custody

Page 1 of 2

5.1 5



## SGS Sample Receipt Summary

Job Number: da62612

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. 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: 3/5/2024 3:58:01 PM

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

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

DA62612: Chain of Custody

Page 2 of 2

5.1  
5

## MS Volatiles

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## 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: DA62612  
 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

DA62612-1

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%

6.1.1  
6

# Blank Spike Summary

Job Number: DA62612  
 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

DA62612-1

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: DA62612  
 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

DA62612-1

CAS No.	Compound	DA62539-2 ug/l	Spike Q 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

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## 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:** DA62612  
**Account:** ANADACOD Occidental Petroleum Corporation  
**Project:** Kerr-McGee: GWA\_Griswold\_27N\_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2847-MB	GA64305.D	1	03/07/24	MB	n/a	n/a	GGA2847

The QC reported here applies to the following samples:

Method: SW846 8015D

DA62612-1

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	119% 60-140%

7.1.1  
7

# Blank Spike Summary

Job Number: DA62612  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Griswold\_27N\_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2847-BS	GA64303.D	1	03/07/24	MB	n/a	n/a	GGA2847

The QC reported here applies to the following samples:

Method: SW846 8015D

DA62612-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	2.23	101	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	119%	60-140%

\* = Outside of Control Limits.

7.2.1  
7

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62612  
 Account: ANADACOD Occidental Petroleum Corporation  
 Project: Kerr-McGee: GWA\_Griswold\_27N\_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA62445-30MS	GA64306.D	1	03/07/24	MB	n/a	n/a	GGA2847
DA62445-30MSD	GA64307.D	1	03/07/24	MB	n/a	n/a	GGA2847
DA62445-30	GA64308.D	1	03/07/24	MB	n/a	n/a	GGA2847

The QC reported here applies to the following samples:

Method: SW846 8015D

DA62612-1

CAS No.	Compound	DA62445-30 Spike mg/l	MS Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2.2	2.05	93	2.2	2.10	95	2	49-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA62445-30 Limits
120-82-1	1,2,4-Trichlorobenzene	126%	122%	118% 60-140%

\* = Outside of Control Limits.