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Automated Report

Technical Report for

Occidental Petroleum Corporation

Kerr-McGee: GWA_Griswold_27N_11HZ

FID:753915 Reg:Vol. Freq.:IN

SGS Job Number: DA62534

Sampling Date: 02/29/24

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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.

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

Occidental Petroleum Corporation

Job No: DA62534

Kerr-McGee: GWA_Griswold_27N_11HZ
Project No: FID:753915 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

DA62534-1 02/29/24 11:20 MH 03/01/24 AQ Trip Blank Water BW_AUSTIN_258678_TRIP_BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Occidental Petroleum Corporation

Job No: DA62534

Site: Kerr-McGee: GWA_Griswold_27N_11HZ

Report Date 3/13/2024 1:59:22 AM

On 03/01/2024, 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 2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA62534 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: V5V3930

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA62477-2MS, DA62477-2MSD were used as the QC samples indicated.

GC Volatiles By Method SW846 8015D

Matrix: AQ

Batch ID: GGA2847

- 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: DA62534
Account: Occidental Petroleum Corporation
Project: Kerr-McGee: GWA_Griswold_27N_11HZ
Collected: 02/29/24



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA62534-1 BW_AUSTIN_258678_TRIP_BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BW_AUSTIN_258678_TRIP_BLANK	Date Sampled: 02/29/24
Lab Sample ID: DA62534-1	Date Received: 03/01/24
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Kerr-McGee: GWA_Griswold_27N_11HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V79974.D	1	03/05/24 15:04	MB	n/a	n/a	V5V3930
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	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-130%
2037-26-5	Toluene-D8	98%		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_AUSTIN_258678_TRIP_BLANK Lab Sample ID: DA62534-1 Matrix: AQ - Trip Blank Water Method: SW846 8015D Project: Kerr-McGee: GWA_Griswold_27N_11HZ	Date Sampled: 02/29/24 Date Received: 03/01/24 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA64310.D	1	03/07/24 14:42	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	119%		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
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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

Form containing client information, project details, requested analysis (PH, SCOM, TDS, etc.), collection data table, and custody chain logs.

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DA62534: Chain of Custody

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SGS Sample Receipt Summary

Job Number: da62534

Client: ABSAROKA

Project: GWA

Date / Time Received: 3/1/2024 11:30:00 AM

Delivery Method: co

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

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: 3/1/2024 1:55:55 PM

Reviewer: _____

Date: _____

DA62534: Chain of Custody

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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: DA62534
 Account: ANADACOD Occidental Petroleum Corporation
 Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3930-MB	5V79965.D	1	03/05/24	MB	n/a	n/a	V5V3930

The QC reported here applies to the following samples:

Method: SW846 8260B

DA62534-1

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	Results	Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

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Blank Spike Summary

Job Number: DA62534
 Account: ANADACOD Occidental Petroleum Corporation
 Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V3930-BS	5V79963.D	1	03/05/24	MB	n/a	n/a	V5V3930

The QC reported here applies to the following samples:

Method: SW846 8260B

DA62534-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.7	101	70-130
100-41-4	Ethylbenzene	50	50.4	101	70-130
108-88-3	Toluene	50	48.5	97	70-130
	m,p-Xylene	100	99.9	100	70-130
95-47-6	o-Xylene	50	49.6	99	70-130
1330-20-7	Xylene (total)	150	150	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62534
 Account: ANADACOD Occidental Petroleum Corporation
 Project: Kerr-McGee: GWA_Griswold_27N_11HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA62477-2MS	5V79967.D	10	03/05/24	MB	n/a	n/a	V5V3930
DA62477-2MSD	5V79968.D	10	03/05/24	MB	n/a	n/a	V5V3930
DA62477-2	5V79966.D	10	03/05/24	MB	n/a	n/a	V5V3930

The QC reported here applies to the following samples:

Method: SW846 8260B

DA62534-1

CAS No.	Compound	DA62477-2 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	341	500	863	104	500	857	103	1	70-130/30
100-41-4	Ethylbenzene	40.7	500	538	99	500	550	102	2	70-130/30
108-88-3	Toluene	8.9	J 500	488	96	500	500	98	2	70-130/30
	m,p-Xylene	134	1000	1120	99	1000	1140	101	2	70-130/30
95-47-6	o-Xylene	22.4	500	514	98	500	524	100	2	70-130/30
1330-20-7	Xylene (total)	157	1500	1630	98	1500	1660	100	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA62477-2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	92%	70-130%
2037-26-5	Toluene-D8	96%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	99%	98%	100%	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: DA62534
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

DA62534-1

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%

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Blank Spike Summary

Job Number: DA62534
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

DA62534-1

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.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA62534
 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

DA62534-1

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.

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