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Automated Report

Technical Report for

Occidental Petroleum Corporation

GWA_Buffalo_Ridge_Water_Well

FID:753954 Reg:Vol. Freq.:IN

SGS Job Number: DA65730

Sampling Date: 07/16/24

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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: DA65730

GWA_Buffalo_Ridge_Water_Well

Project No: FID:753954 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

DA65730-1	07/16/24	09:42	EF	07/17/24	AQ	Trip Blank Water	BW_MARTIN_47218_F_TRIP_BLANK
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CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Occidental Petroleum Corporation

Job No: DA65730

Site: GWA_Buffalo_Ridge_Water_Well

Report Date 7/25/2024 6:54:50 AM

On 07/17/2024, 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 DA65730 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: V5V4059
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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) DA65379-57MS, DA65379-57MSD were used as the QC samples indicated.

GC Volatiles By Method SW846 8015D

Matrix: AQ	Batch ID: GGA2904
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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) DA65379-58MS, DA65379-58MSD 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: DA65730
Account: Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well
Collected: 07/16/24



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA65730-1 BW_MARTIN_47218_F_TRIP_BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BW_MARTIN_47218_F_TRIP_BLANK	Date Sampled: 07/16/24
Lab Sample ID: DA65730-1	Date Received: 07/17/24
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GWA_Buffalo_Ridge_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V82934.D	1	07/17/24 22:58	MB	n/a	n/a	V5V4059
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	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_MARTIN_47218_F_TRIP_BLANK	Date Sampled: 07/16/24
Lab Sample ID: DA65730-1	Date Received: 07/17/24
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8015D	
Project: GWA_Buffalo_Ridge_Water_Well	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA66124.D	1	07/18/24 18:04	JC	n/a	n/a	GGA2904
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	103%		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.accutest.com

Bottle Order Control #
FED-EX Tracking #
SGS Quote #
SGS Job # DA65730

Client / Reporting Information
Project Information
Requested Analysis (see TEST CODE sheet)
Matrix Codes
Collection table with columns for Field ID, Date, Time, Matrix, # of bottles, and various chemical analysis methods.
Turnaround Time (Business days)
Data Deliverable Information
Comments / Special Instructions
Sample Custody must be documented below each time samples change possession, including courier delivery.

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DA65730: Chain of Custody

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SGS Sample Receipt Summary

Job Number: da65730

Client: ABSAROKA

Project: GWA

Date / Time Received: 7/17/2024 1:00:00 PM

Delivery Method: co

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Informatio

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 analysi:
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT:
- 6. Dates/Times/IDs on COC match sample labe:
- 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: 7/17/2024 2:20:08 PM

Reviewer: _____

Date: _____

DA65730: 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: DA65730
 Account: ANADACOD Occidental Petroleum Corporation
 Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4059-MB	5V82924A.D	1	07/17/24	MB	n/a	n/a	V5V4059

The QC reported here applies to the following samples:

Method: SW846 8260B

DA65730-1

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	101% 70-130%
17060-07-0	1,2-Dichloroethane-D4	100% 70-130%
2037-26-5	Toluene-D8	101% 70-130%
460-00-4	4-Bromofluorobenzene	102% 70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.40	5.5	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: DA65730
 Account: ANADACOD Occidental Petroleum Corporation
 Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4059-BS	5V82922A.D	1	07/17/24	MB	n/a	n/a	V5V4059

The QC reported here applies to the following samples:

Method: SW846 8260B

DA65730-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	52.7	105	70-130
100-41-4	Ethylbenzene	50	53.7	107	70-130
108-88-3	Toluene	50	52.9	106	70-130
	m,p-Xylene	100	108	108	70-130
95-47-6	o-Xylene	50	53.4	107	70-130
1330-20-7	Xylene (total)	150	161	107	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	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	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA65730
 Account: ANADACOD Occidental Petroleum Corporation
 Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA65379-57MS	5V82926A.D	1	07/17/24	MB	n/a	n/a	V5V4059
DA65379-57MSD	5V82927A.D	1	07/17/24	MB	n/a	n/a	V5V4059
DA65379-57	5V82925A.D	1	07/17/24	MB	n/a	n/a	V5V4059

The QC reported here applies to the following samples:

Method: SW846 8260B

DA65730-1

CAS No.	Compound	DA65379-57 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	53.7	107	50	53.2	106	1	70-130/30
100-41-4	Ethylbenzene	ND	50	54.2	108	50	53.6	107	1	70-130/30
108-88-3	Toluene	ND	50	54.5	109	50	53.4	107	2	70-130/30
	m,p-Xylene	ND	100	109	109	100	108	108	1	70-130/30
95-47-6	o-Xylene	ND	50	54.1	108	50	53.5	107	1	70-130/30
1330-20-7	Xylene (total)	ND	150	164	109	150	161	107	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA65379-57 Limits	
1868-53-7	Dibromofluoromethane	99%	100%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	99%	70-130%
2037-26-5	Toluene-D8	99%	99%	101%	70-130%
460-00-4	4-Bromofluorobenzene	98%	97%	103%	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: DA65730
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2904-MB	GA66116.D	1	07/18/24	JC	n/a	n/a	GGA2904

The QC reported here applies to the following samples:

Method: SW846 8015D

DA65730-1

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	103% 60-140%

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Blank Spike Summary

Job Number: DA65730
 Account: ANADACOD Occidental Petroleum Corporation
 Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2904-BS	GA66114.D	1	07/18/24	JC	n/a	n/a	GGA2904

The QC reported here applies to the following samples:

Method: SW846 8015D

DA65730-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	2.07	94	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	130%	60-140%

* = Outside of Control Limits.

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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA65730
 Account: ANADACOD Occidental Petroleum Corporation
 Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA65379-58MS	GA66118.D	1	07/18/24	JC	n/a	n/a	GGA2904
DA65379-58MSD	GA66119.D	1	07/18/24	JC	n/a	n/a	GGA2904
DA65379-58	GA66117.D	1	07/18/24	JC	n/a	n/a	GGA2904

The QC reported here applies to the following samples:

Method: SW846 8015D

DA65730-1

CAS No.	Compound	DA65379-58 Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD	
	TPH-GRO (C6-C10)	ND	2.2	1.85	84	2.2	1.85	84	0	49-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA65379-58 Limits
120-82-1	1,2,4-Trichlorobenzene	135%	136%	105% 60-140%

* = Outside of Control Limits.