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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: DA65726

Sampling Date: 07/16/24

Report to:

tanya.cude@absarokasolutions.com
joel.mason@absarokasolutions.com
jordan.fleming@absarokasolutions.com

ATTN: Distribution6

Total number of pages in report: 44

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

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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Sample Summary

Occidental Petroleum Corporation

Job No: DA65726

GWA_Buffalo_Ridge_Water_Well
Project No: FID:753954 Reg:Vol. Freq.:IN

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
DA65726-1	07/16/24	09:42	EF	07/17/24	AQ	Ground Water	BW_MARTIN_47218_F NWSW_12_1N_66W
DA65726-1A	07/16/24	09:42	EF	07/17/24	AQ	Ground Water	BW_MARTIN_47218_F NWSW_12_1N_66W
DA65726-1B	07/16/24	09:42	EF	07/17/24	AQ	Ground Water	BW_MARTIN_47218_F NWSW_12_1N_66W
DA65726-1F	07/16/24	09:42	EF	07/17/24	AQ	Groundwater Filtered	BW_MARTIN_47218_F NWSW_12_1N_66W

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Occidental Petroleum Corporation	**Job No:**	DA65726
Site:	GWA_Buffalo_Ridge_Water_Well	**Report Date**	8/5/2024 6:49:24 AM

On 07/17/2024, 1 sample(s), 0 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 DA65726 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

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA65379-57MS, DA65379-57MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK371

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA65726-1AMS, DA65726-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- DA65726-1A: The pH of the sample was >2 at time of analysis. Bottles marked as unpreserved.

GC Volatiles By Method SW846 8015D

Matrix: AQ **Batch ID:** GGA2904

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA65379-58MS, DA65379-58MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846-8015D

Matrix: AQ **Batch ID:** OP26067

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) DA65658-1MS, DA65658-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP39789

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65766-1FMS, DA65766-1FMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP36995

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65698-1MS, DA65698-1MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.
- DA65726-1 for Sulfate: Elevated detection limit due to matrix interference.
- DA65726-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.
- DA65726-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA65726-1 for Bromide: Elevated detection limit due to matrix interference.

Matrix: AQ **Batch ID:** R63744

- The data for EPA 300.0 meets quality control requirements.
- DA65726-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP37036

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65726-1DUP, DA65726-1MS, DA65726-1MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART-NOCERT

Matrix: AQ **Batch ID:** MB1781

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65883-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix: AQ **Batch ID:** MB1782

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65883-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ **Batch ID:** MB1783

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65883-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN64148

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA65810-8DUP, DA65810-9MS, DA65810-9MSD were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix: AQ **Batch ID:** GN64149

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN64150

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ **Batch ID:** GP37001

- Sample(s) DA65726-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ **Batch ID:** GN64134

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM1030E-2011

Matrix: AQ **Batch ID:** GN64182

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ **Batch ID:** GN64115

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA65726-1 Analysis performed past recommended hold time.

Field Data By Method FIELD

Matrix: AQ **Batch ID:** R63746

- The data for FIELD meets quality control requirements.

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: DA65726
Account: Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well
Collected: 07/16/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA65726-1	**BW_MARTIN_47218_F NWSW_12_1N_66W**					
Fluoride		2.4	0.20		mg/l	EPA 300.0
Chloride		76.0	13		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		500	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate		34.1	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		534	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		1.6			%	SM1030E-2011
Phosphorus, Total		0.049	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		641	10		mg/l	SM 2540C-2011
Specific Conductivity		1140	1.0		umhos/cm	SM 2510B-2011
pH [a]		8.73			su	SM4500HB + -2011/9040C
Specific Conductivity (Field)		1082.5	0.50		umhos/cm	FIELD
pH (Field)		8.74			su	FIELD
Temperature (Field)		24.7			Deg. C	FIELD
Oxygen, Dissolved (Field)		0.18			mg/l	FIELD
Turbidity		0.02			NTU	FIELD
DA65726-1A	**BW_MARTIN_47218_F NWSW_12_1N_66W**					
Methane [b]		4.25	0.0080	0.0070	mg/l	RSK175 MOD
Ethane [b]		0.0074	0.0016	0.0010	mg/l	RSK175 MOD
DA65726-1B	**BW_MARTIN_47218_F NWSW_12_1N_66W**					
Iron-Related Bacteria		2200	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria		< 500	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria		< 200	200		CFU/ml	HC SRB-BART-NO CERT
DA65726-1F	**BW_MARTIN_47218_F NWSW_12_1N_66W**					
Barium		0.0502	0.0020		mg/l	EPA 200.8
Boron		0.389	0.040		mg/l	EPA 200.8
Calcium		1.50	0.40		mg/l	EPA 200.8
Magnesium		0.433	0.10		mg/l	EPA 200.8
Manganese		0.0056	0.0010		mg/l	EPA 200.8
Potassium		1.23	0.20		mg/l	EPA 200.8
Sodium		285	5.0		mg/l	EPA 200.8
Strontium		0.0645	0.020		mg/l	EPA 200.8

(a) Analysis performed past recommended hold time.
(b) The pH of the sample was > 2 at time of analysis. Bottles marked as unpreserved.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V82935.D	1	07/17/24 23:23	MB	n/a	n/a	V5V4059
Run #2							

	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	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	99%		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
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
Method:	SW846 8015D	**Percent Solids:**	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA66123.D	1	07/18/24 17:25	JC	n/a	n/a	GGA2904
Run #2							

	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	105%		60-140%

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

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
Method:	SW846-8015D SW846 3510C	**Percent Solids:**	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH077709.D	1	07/24/24 22:42	JB	07/18/24 04:00	OP26067	GFH23924
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		10-131%

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

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
		Percent Solids:	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	2.4	0.20	mg/l	2	07/17/24 16:45	MB	EPA 300.0
Chloride	76.0	13	mg/l	25	07/17/24 16:54	MB	EPA 300.0
Nitrogen, Nitrite [a]	< 0.0080	0.0080	mg/l	2	07/17/24 16:45	MB	EPA 300.0
Bromide [a]	< 0.10	0.10	mg/l	2	07/17/24 16:45	MB	EPA 300.0
Nitrogen, Nitrate [a]	< 0.020	0.020	mg/l	2	07/17/24 16:45	MB	EPA 300.0
Sulfate [a]	< 1.0	1.0	mg/l	2	07/17/24 16:45	MB	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [b]	< 0.028	0.028	mg/l	1	07/17/24 16:45	MB	EPA 300.0
Alkalinity, Bicarbonate as CaC	500	5.0	mg/l	1	07/22/24 12:22	JW	SM 2320B-2011
Alkalinity, Carbonate	34.1	5.0	mg/l	1	07/22/24 12:22	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	534	5.0	mg/l	1	07/22/24 12:22	JW	SM 2320B-2011
Cation Anion Balance	1.6		%	1	07/25/24	MB	SM1030E-2011
Phosphorus, Total	0.049	0.010	mg/l	1	07/24/24 10:54	KH	EPA 365.1
Solids, Total Dissolved	641	10	mg/l	1	07/19/24 07:00	JW	SM 2540C-2011
Specific Conductivity	1140	1.0	umhos/cm	1	07/18/24 10:00	JW	SM 2510B-2011
pH [c]	8.73		su	1	07/18/24 11:35	JW	SM4500HB+-2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	0.18		mg/l	1	07/16/24 09:42	SUB	FIELD
Redox Potential Vs H2	-40.3		mv	1	07/16/24 09:42	SUB	FIELD
Specific Conductivity (Field)	1082.5	0.50	umhos/cm	1	07/16/24 09:42	SUB	FIELD
Temperature (Field)	24.7		Deg. C	1	07/16/24 09:42	SUB	FIELD
Turbidity	0.02		NTU	1	07/16/24 09:42	SUB	FIELD
pH (Field)	8.74		su	1	07/16/24 09:42	SUB	FIELD

(a) Elevated detection limit due to matrix interference.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1A	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FK5114.D	1	07/19/24 13:52	MB	n/a	n/a	GFK371
Run #2 [a]	FK5115.D	10	07/19/24 13:57	MB	n/a	n/a	GFK371

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	22.5 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	22.5 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.25 [b]	0.0080	0.0070	mg/l	
74-84-0	Ethane	0.0074	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as unpreserved.
(b) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1B	**Date Sampled:**	07/16/24
Matrix:	AQ - Ground Water	**Date Received:**	07/17/24
		Percent Solids:	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria	2200	25	CFU/ml	1	07/26/24 10:00	TH	HACH IRB-BART-NOCERT
Slime Forming Bacteria	< 500	500	CFU/ml	1	07/26/24 10:00	TH	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria	< 200	200	CFU/ml	1	07/26/24 10:00	TH	HC SRB-BART-NO CERT

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_MARTIN_47218_F NWSW_12_1N_66W		
Lab Sample ID:	DA65726-1F	**Date Sampled:**	07/16/24
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/24
		Percent Solids:	n/a
Project:	GWA_Buffalo_Ridge_Water_Well		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	0.0502	0.0020	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Boron	0.389	0.040	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Calcium	1.50	0.40	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Iron	< 0.020	0.020	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Magnesium	0.433	0.10	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Manganese	0.0056	0.0010	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Potassium	1.23	0.20	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Selenium	< 0.00040	0.00040	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Sodium	285	5.0	mg/l	10	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]
Strontium	0.0645	0.020	mg/l	1	07/23/24	07/24/24	CDL	EPA 200.8 [1]	EPA 200.8 [2]

(1) Instrument QC Batch: MA18245
(2) Prep QC Batch: MP39789

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS
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 #: DA65726

Client / Reporting Information

Company: Kerr-McGee Oil and Gas Onshore LP
Street: 1099 18th Street
City, State: Denver, CO 80202
Project Contact: Joel Mason
Phone: 307-262-8975
Email: Joel.Mason@Absarokasolutions.com
Sampler(s) Name(s): Emily Fitzjohn

Project Information

Project Name: GWA_Buffalo_Ridge_Water_Well | Frequency: IN
Regulation: Voluntary
Facility ID: 753954
EQuIS Facility Code: 0089019-AN-GWABWQ
Client Purchase Order #: 4501812370 Line Item: 50
Project Manager: Joel Mason

Billing Information (if different from Report to)

Company: Occidental Petroleum Corporation (OXY)
Street Address: 1201 Lake Robbins Drive
City, State ZIP: The Woodlands, TX 77380
Attention: Erik Mickelson User ID: fvv451

Requested Analysis (see TEST CODE sheet)

Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O3	Other	PH, SCON, TDS	XCARBICALK	BRO, CHL, F, NO2, XNO3O, NO32, SO4	TPO4	Dissolved Metals - Lab Filtered*	VRSK175DGMEP	V8260BTX	B8015DRO	V8015GRO	IRBAC, SFBAC, SO4RBAC	CABAL	LAB USE ONLY
BW_Martin_47218_F	7/16/2024	9:42	EF	GW	17	9	6			1					1	X	X	X	X	X	X	X	X	X	X	X	
NWSW_12_1N_66W																											
Temperature, field	24.7	°C																									
pH, field	8.74	s.u.																									
Specific Conductivity, field	1082.5	uS/cm																									
Oxidation Reduction Potential, field	-40.3	mV																									
Dissolved Oxygen, field	0.18	mg/L																									
Turbidity, field	0.02	NTU																									

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency

Emergency & Rush T/A data available VIA LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [x] EDD Format: COGCC Compatible

Comments / Special Instructions

*Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe,Mg, Mn, K, SeMS, Na, Sr

Please also send reports to Michelle.Henry@absarokasolutions.com and Jordan.Fleming@Absarokasolutions.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1	7/16/24 18:00	1 7/22	2		2
3		3	4		4

Custody Seal # | Intact [ ] | Not Intact [ ] | Absent [ ]
Preserved where applicable [ ] | Cooler Temp. °C: | Therm. ID: | On Ice [ ]

Form MSQA 064-01, RV 6/19/17
http://www.sgs.com/terms-and-conditions

SGS Sample Receipt Summary

Job Number: da65726 **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. Suffiient 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 #s: 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 1:14:10 PM Reviewer: Date:

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: DA65726
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

DA65726-1

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: DA65726
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

DA65726-1

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: DA65726
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

DA65726-1

CAS No.	Compound	DA65379-57 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
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: DA65726
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

DA65726-1

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%

Method Blank Summary

Job Number: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK371-MB	FK5109.D	1	07/19/24	MB	n/a	n/a	GFK371

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA65726-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

Blank Spike Summary

Job Number: DA65726
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

DA65726-1

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.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK371-BS	FK5113.D	10	07/19/24	MB	n/a	n/a	GFK371
GFK371-BSD	FK5124.D	10	07/19/24	MB	n/a	n/a	GFK371

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA65726-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.51	0.606	119	0.592	116	2	70-135/30
74-84-0	Ethane	0.956	1.20	126	1.18	123	2	70-150/30
74-98-6	Propane	1.4	1.71	122	1.66	118	3	70-145/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA65726
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

DA65726-1

CAS No.	Compound	DA65379-58 mg/l	Q	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.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA65726-1AMS [a]	FK5116.D	10	07/19/24	MB	n/a	n/a	GFK371
DA65726-1AMSD [a]	FK5117.D	10	07/19/24	MB	n/a	n/a	GFK371
DA65726-1A [a]	FK5114.D	1	07/19/24	MB	n/a	n/a	GFK371
DA65726-1A [a]	FK5115.D	10	07/19/24	MB	n/a	n/a	GFK371

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA65726-1A

CAS No.	Compound	DA65726-1A mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	4.25 [b]		0.51	4.27	37	0.51	4.25	33	0	20-183/30
74-84-0	Ethane	0.0074		0.956	1.09	113	0.956	1.09	113	0	50-140/30
74-98-6	Propane	ND		1.4	1.54	110	1.4	1.54	110	0	50-140/30

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as unpreserved.
(b) Result is from Run #2.

* = Outside of Control Limits.

GC/LC Semi-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: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26067-MB	FH077698.D	1	07/24/24	JB	07/18/24	OP26067	GFH23924

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA65726-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.19	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	67%	10-131%

Blank Spike Summary

Job Number: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26067-BS	FH077699.D	1	07/24/24	JB	07/18/24	OP26067	GFH23924

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA65726-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	5	5.90	118	20-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	79%	10-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA65726
Account: ANADACOD Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26067-MS	FH077700.D	1	07/24/24	JB	07/18/24	OP26067	GFH23924
OP26067-MSAD	FH077701.D	1	07/24/24	JB	07/18/24	OP26067	GFH23924
DA65658-1	FH077702.D	1	07/24/24	JB	07/18/24	OP26067	GFH23924

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA65726-1

CAS No.	Compound	DA65658-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		10	7.68	77	10	9.99	100	26	20-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA65658-1	Limits
84-15-1	o-Terphenyl	84%	72%	64%	10-131%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

QC Batch ID: MP39789
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 07/23/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	13		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.25	0.012	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	2.6	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	5.3	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	1.8	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	5.7	<100
Manganese	1.0	.079	.51	0.036	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-17	<200
Selenium	0.40	.05	.1	0.012	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	-13	<500
Strontium	20	.1	5	0.0088	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.37		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2.1		

Associated samples MP39789: DA65726-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

QC Batch ID: MP39789
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 07/23/24

Metal	DA65766-1F Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	38.8	436	400	99.3	70-130
Beryllium	anr				
Boron	0.00	418	400	104.5	70-130
Cadmium	anr				
Calcium	45500	53100	5000	152.0(a)	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	12.6	1000	1000	98.7	70-130
Lead	anr				
Magnesium	21200	25800	5000	92.0	70-130
Manganese	16.5	210	200	96.8	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	894	5800	5000	98.1	70-130
Selenium	2.2	206	200	101.9	70-130
Silver	anr				
Sodium	2020	6790	5000	95.4	70-130
Strontium	99.2	201	100	101.8	70-130
Thallium	anr				
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP39789: DA65726-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

QC Batch ID: MP39789
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 07/23/24

Metal	DA65766-1F Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	38.8	442	400	100.8	0.7	20
Beryllium	anr					
Boron	0.00	425	400	106.3	1.2	20
Cadmium	anr					
Calcium	45500	51900	5000	128.0	2.3	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	12.6	1020	1000	100.7	1.0	20
Lead	anr					
Magnesium	21200	26400	5000	104.0	2.6	20
Manganese	16.5	216	200	99.8	0.0	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	894	5710	5000	96.3	2.3	20
Selenium	2.2	207	200	102.4	0.5	20
Silver	anr					
Sodium	2020	6780	5000	95.2	2.3	20
Strontium	99.2	196	100	96.8	2.0	20
Thallium	anr					
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP39789: DA65726-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

QC Batch ID: MP39789
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 07/23/24

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	394	400	98.5	85-115
Beryllium	anr			
Boron	413	400	103.3	85-115
Cadmium	anr			
Calcium	5090	5000	101.8	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	1030	1000	103.0	85-115
Lead	anr			
Magnesium	4810	5000	96.2	85-115
Manganese	207	200	103.5	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	5160	5000	103.2	85-115
Selenium	207	200	103.5	85-115
Silver	anr			
Sodium	5040	5000	100.8	85-115
Strontium	96.2	100	96.2	85-115
Thallium	anr			
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP39789: DA65726-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN64149	5.0	0.0	mg/l	100	108	107.8	90-110%
Alkalinity, Carbonate	GN64150	5.0	0.0	mg/l	100	108	107.8	90-110%
Alkalinity, Total as CaCO3	GN64148	5.0	0.0	mg/l	100	108	107.8	90-110%
Bromide	GP36995/GN64102	0.050	0.0	mg/l	0.5	0.514	102.8	90-110%
Chloride	GP36995/GN64102	0.50	0.0	mg/l	5	5.01	100.2	90-110%
Fluoride	GP36995/GN64102	0.10	0.0	mg/l	1	1.03	103.0	90-110%
Iron-Related Bacteria	MB1781	25	<25	CFU/ml				
Nitrogen, Nitrate	GP36995/GN64102	0.010	0.0	mg/l	0.1	0.100	100.0	90-110%
Nitrogen, Nitrite	GP36995/GN64102	0.0040	0.0	mg/l	0.05	0.0512	102.4	90-110%
Phosphate, Ortho	GP36995/GN64102	0.050	0.0	mg/l	0.5	0.502	100.4	90-110%
Phosphorus, Total	GP37036/GN64170	0.010	0.0	mg/l	0.2	0.188	94.0	90-110%
Slime Forming Bacteria	MB1782	500	<500	CFU/ml				
Solids, Total Dissolved	GN64134	10	0.0	mg/l	250	992	99.2	90-110%
Specific Conductivity	GP37001/GN64109			umhos/cm	10000	1430	101.3	90-110%
Sulfate	GP36995/GN64102	0.50	0.0	mg/l	5	5.10	102.0	90-110%
Sulfate Reducing Bacteria	MB1783	200	<200	CFU/ml				

Associated Samples:
Batch MB1781: DA65726-1B
Batch MB1782: DA65726-1B
Batch MB1783: DA65726-1B
Batch GN64134: DA65726-1
Batch GN64148: DA65726-1
Batch GN64149: DA65726-1
Batch GN64150: DA65726-1
Batch GP36995: DA65726-1
Batch GP37001: DA65726-1
Batch GP37036: DA65726-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN64148	DA65810-8	mg/l	58.8	57.4	2.3	0-20%
Iron-Related Bacteria	MB1781	DA65883-1B	CFU/ml	2200	2200	0.0	0-%
Phosphorus, Total	GP37036/GN64170	DA65726-1	mg/l	0.049	0.049	0.0	0-20%
Slime Forming Bacteria	MB1782	DA65883-1B	CFU/ml	<500	<500	500.0	0-%
Specific Conductivity	GP37001/GN64109	DA65726-1	umhos/cm	1140	1140	0.4	0-20%
Sulfate Reducing Bacteria	MB1783	DA65883-1B	CFU/ml	<200	325	0.0	0-%

Associated Samples:
Batch MB1781: DA65726-1B
Batch MB1782: DA65726-1B
Batch MB1783: DA65726-1B
Batch GN64148: DA65726-1
Batch GP37001: DA65726-1
Batch GP37036: DA65726-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN64148	DA65810-9	mg/l	56.7	100	159	102.7	80-120%
Bromide	GP36995/GN64102	DA65698-1	mg/l	0.025 U	0.5	0.52	104.0	80-120%
Chloride	GP36995/GN64102	DA65698-1	mg/l	1.1	5	6.1	100.0	80-120%
Fluoride	GP36995/GN64102	DA65698-1	mg/l	0.41	1	1.5	109.0	80-120%
Nitrogen, Nitrate	GP36995/GN64102	DA65698-1	mg/l	0.0060 U	0.1	0.10	100.0	80-120%
Nitrogen, Nitrite	GP36995/GN64102	DA65698-1	mg/l	0.0049	0.05	0.054	98.2	80-120%
Phosphate, Ortho	GP36995/GN64102	DA65698-1	mg/l	0.035 U	0.5	0.46	92.0	80-120%
Phosphorus, Total	GP37036/GN64170	DA65726-1	mg/l	0.049	0.2	0.25	100.5	90-110%
Sulfate	GP36995/GN64102	DA65698-1	mg/l	3.1	5	8.2	102.0	80-120%

Associated Samples:
Batch GN64148: DA65726-1
Batch GP36995: DA65726-1
Batch GP37036: DA65726-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA65726
Account: ANADACOD - Occidental Petroleum Corporation
Project: GWA_Buffalo_Ridge_Water_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN64148	DA65810-9	mg/l	56.7	100	159	0.3	20%
Bromide	GP36995/GN64102	DA65698-1	mg/l	0.025 U	0.5	0.49	5.9	20%
Chloride	GP36995/GN64102	DA65698-1	mg/l	1.1	5	5.9	3.3	20%
Fluoride	GP36995/GN64102	DA65698-1	mg/l	0.41	1	1.4	6.9	20%
Nitrogen, Nitrate	GP36995/GN64102	DA65698-1	mg/l	0.0060 U	0.1	0.096	4.1	20%
Nitrogen, Nitrite	GP36995/GN64102	DA65698-1	mg/l	0.0049	0.05	0.053	1.9	20%
Phosphate, Ortho	GP36995/GN64102	DA65698-1	mg/l	0.035 U	0.5	0.44	4.4	20%
Phosphorus, Total	GP37036/GN64170	DA65726-1	mg/l	0.049	0.2	0.25	0.0	20%
Sulfate	GP36995/GN64102	DA65698-1	mg/l	3.1	5	8.0	2.5	20%

Associated Samples:
Batch GN64148: DA65726-1
Batch GP36995: DA65726-1
Batch GP37036: DA65726-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits