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## Technical Report for

**Occidental Petroleum Corporation**

**GWA\_NGL\_Water\_Well**

**FID: 755053, Feq. S2**

**SGS Job Number: DA68493**

**Sampling Date: 10/31/24**

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**Total number of pages in report: 47**



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: DA68493

GWA\_NGL\_Water\_Well  
Project No: FID: 755053, Feq. S2

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

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

DA68493-1	10/31/24	13:12 DS	11/01/24	AQ	Ground Water	BW_NGL_78801_F_R SESE_30_3N_65W
DA68493-1A	10/31/24	13:12 DS	11/01/24	AQ	Ground Water	BW_NGL_78801_F_R SESE_30_3N_65W
DA68493-1B	10/31/24	13:12 DS	11/01/24	AQ	Ground Water	BW_NGL_78801_F_R SESE_30_3N_65W
DA68493-1F	10/31/24	13:12 DS	11/01/24	AQ	Groundwater Filtered	BW_NGL_78801_F_R SESE_30_3N_65W

## CASE NARRATIVE / CONFORMANCE SUMMARY

2

**Client:** Occidental Petroleum Corporation

**Job No:** DA68493

**Site:** GWA\_NGL\_Water\_Well

**Report Date** 12/16/2024 7:45:24 A

On 11/01/2024, 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 2.5 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA68493 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:** V5V4190

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA68480-14MS, DA68480-14MSD 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:** GFK389

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA68428-3MS, DA68428-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

### GC Volatiles By Method SW846 8015D

**Matrix:** AQ

**Batch ID:** GGA2957

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA68480-16MS, DA68480-16MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

### GC/LC Semi-volatiles By Method SW846 8015C

**Matrix:** AQ

**Batch ID:** OP26655

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) DA68490-1MS, DA68490-1MSD 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:** MP40398

- 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) DA68599-3AMS, DA68599-3AMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium 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:** GP37662

- 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.
- DA68493-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA68493-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

**Matrix:** AQ

**Batch ID:** R64368

- The data for EPA 300.0 meets quality control requirements.
- DA68493-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

## General Chemistry By Method HACH IRB-BART-NOCERT

**Matrix:** AQ

**Batch ID:** MB1809

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA68263-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- MB1809-MB for Iron-Related Bacteria: certification for this test is not offered.
- DA68493-1B for Iron-Related Bacteria: certification for this test is not offered.

## General Chemistry By Method HC SLYM-BART-NO CERT

**Matrix:** AQ

**Batch ID:** MB1811

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA68263-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- MB1811-MB for Slime Forming Bacteria: Certification for this test is not offered.
- DA68493-1B for Slime Forming Bacteria: Certification for this test is not offered.

## General Chemistry By Method HC SRB-BART-NO CERT

**Matrix:** AQ

**Batch ID:** MB1813

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA68263-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- DA68493-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.
- MB1813-MB for Sulfate Reducing Bacteria: Certification for this test is not offered.

### General Chemistry By Method SM 2320B-2011

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65192
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65193
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65194
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- 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

<b>Matrix:</b> AQ	<b>Batch ID:</b> GP37679
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- Sample(s) DA68493-1DUP were used as the QC samples for the Specific Conductivity analysis.

### General Chemistry By Method SM 2540C-2011

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65199
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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) DA68493-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

### General Chemistry By Method SM1030E-2011

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65548
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- The data for SM1030E-2011 meets quality control requirements.

### General Chemistry By Method SM4500HB+-2011/9040C

<b>Matrix:</b> AQ	<b>Batch ID:</b> GN65218
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- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA68493-1 Analysis performed past recommended hold time.

### General Chemistry By Method SM4500PE-11

<b>Matrix:</b> AQ	<b>Batch ID:</b> L:GP13849
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- The data for SM4500PE-11 meets quality control requirements.
- DA68493-1 for Phosphorus, Total: Analysis performed at SGS Scott, LA.

### Field Data By Method FIELD

<b>Matrix:</b> AQ	<b>Batch ID:</b> R64365
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- 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.

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** SGS Wheat Ridge, CO

**Job No:** DA68493

**Site:** ANADACOD: GWA NGL Water Well

Report Date 12/3/2024 6:50:43 AM

On 11/01/2024, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA68493 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.

## General Chemistry By Method SM4500PE-11

Matrix: AQ

**Batch ID:** GP13849

- 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) LB8922-1MS, LB8922-1MSD were used as the QC samples for the Phosphorus, Total analysis.

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

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Job Number: DA68493  
Account: Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well  
Collected: 10/31/24

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA68493-1 BW\_NGL\_78801\_F\_R SESE\_30\_3N\_65W

Fluoride	1.7	0.20		mg/l	EPA 300.0
Chloride	136	13		mg/l	EPA 300.0
Bromide	0.88	0.10		mg/l	EPA 300.0
Sulfate	158	13		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO <sub>3</sub>	529	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate	6.7	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO <sub>3</sub>	536	5.0		mg/l	SM 2320B-2011
Cation Anion Balance	3.6			%	SM1030E-2011
Solids, Total Dissolved	948	10		mg/l	SM 2540C-2011
Specific Conductivity	1680	1.0		umhos/cm	SM 2510B-2011
pH <sup>a</sup>	8.53			su	SM4500HB+ -2011/9040C
Specific Conductivity (Field)	1675.7	0.50		umhos/cm	FIELD
pH (Field)	8.15			su	FIELD
Temperature (Field)	18.7			Deg. C	FIELD
Oxygen, Dissolved (Field)	0.12			mg/l	FIELD
Turbidity	0.02			NTU	FIELD

DA68493-1A BW\_NGL\_78801\_F\_R SESE\_30\_3N\_65W

Methane	5.12	0.0080	0.0070	mg/l	RSK175 MOD
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DA68493-1B BW\_NGL\_78801\_F\_R SESE\_30\_3N\_65W

Iron-Related Bacteria <sup>b</sup>	500	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria <sup>c</sup>	500	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria <sup>c</sup>	< 200	200		CFU/ml	HC SRB-BART-NO CERT

DA68493-1F BW\_NGL\_78801\_F\_R SESE\_30\_3N\_65W

Barium	0.0504	0.0020		mg/l	EPA 200.8
Boron	0.199	0.040		mg/l	EPA 200.8
Calcium	13.5	0.40		mg/l	EPA 200.8
Magnesium	3.69	0.10		mg/l	EPA 200.8
Manganese	0.0101	0.0010		mg/l	EPA 200.8
Potassium	1.98	0.20		mg/l	EPA 200.8
Sodium	360	10		mg/l	EPA 200.8
Strontium	0.389	0.020		mg/l	EPA 200.8

(a) Analysis performed past recommended hold time.

(b) certification for this test is not offered.

(c) Certification for this test is not offered.

## Sample Results

## Report of Analysis

Report of Analysis

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W					Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1					Date Received:	11/01/24
Matrix:	AQ - Ground Water					Percent Solids:	n/a
Method:	SW846 8260B						
Project:	GWA_NGL_Water_Well						

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	5V85853.D	1	11/04/24 19:37	MB	n/a	n/a	V5V4190

Run #1	Purge Volume
Run #2	5.0 ml

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	99%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		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

Report of Analysis

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W					Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1					Date Received:	11/01/24
Matrix:	AQ - Ground Water					Percent Solids:	n/a
Method:	SW846 8015D						
Project:	GWA_NGL_Water_Well						

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	GA67679.D	1	11/04/24 22:24	MB	n/a	n/a	GGA2957

Run #1	Purge Volume
Run #2	5.0 ml

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	102%		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

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<b>Client Sample ID:</b>	BW_NGL_78801_F_R SESE_30_3N_65W		
<b>Lab Sample ID:</b>	DA68493-1	<b>Date Sampled:</b>	10/31/24
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	11/01/24
<b>Method:</b>	SW846 8015C SW846 3511	<b>Percent Solids:</b>	n/a
<b>Project:</b>	GWA_NGL_Water_Well		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP078277.D	1	11/06/24 17:04	JB	11/05/24 10:00	OP26655	GFP124
Run #2							

	Initial Volume	Final Volume
Run #1	58.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.17	0.12	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-130%		

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

Page 1 of 1

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W	Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1	Date Received:	11/01/24
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GWA_NGL_Water_Well		

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>300.0</b>							
Fluoride	1.7	0.20	mg/l	2	11/01/24 16:11	CS	EPA 300.0
Chloride	136	13	mg/l	25	11/01/24 16:23	CS	EPA 300.0
Nitrogen, Nitrite <sup>a</sup>	< 0.0080	0.0080	mg/l	2	11/01/24 16:11	CS	EPA 300.0
Bromide	0.88	0.10	mg/l	2	11/01/24 16:11	CS	EPA 300.0
Nitrogen, Nitrate <sup>a</sup>	< 0.020	0.020	mg/l	2	11/01/24 16:11	CS	EPA 300.0
Sulfate	158	13	mg/l	25	11/01/24 16:23	CS	EPA 300.0
<b>300.0 NO2 + NO3O</b>							
Nitrogen, Nitrate + Nitrite <sup>b</sup>	< 0.028	0.028	mg/l	1	11/01/24 16:11	CS	EPA 300.0
Alkalinity, Bicarbonate as CaC	529	5.0	mg/l	1	11/04/24 11:26	JW	SM 2320B-2011
Alkalinity, Carbonate	6.7	5.0	mg/l	1	11/04/24 11:26	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	536	5.0	mg/l	1	11/04/24 11:26	JW	SM 2320B-2011
Cation Anion Balance	3.6		%	1	12/13/24	JB	SM1030E-2011
Phosphorus, Total <sup>c</sup>	< 0.25	0.25	mg/l	5	11/27/24 12:00	ALA	SM4500PE-11
Solids, Total Dissolved	948	10	mg/l	1	11/04/24 07:00	JW	SM 2540C-2011
Specific Conductivity	1680	1.0	umhos/cm	1	11/05/24 13:00	JW	SM 2510B-2011
pH <sup>d</sup>	8.53		su	1	11/05/24 11:00	JW	SM4500HB+ -2011/9040C

## Field Parameters

Oxygen, Dissolved (Field)	0.12		mg/l	1	10/31/24 13:12	SUB	FIELD
Redox Potential Vs H2	-191		mv	1	10/31/24 13:12	SUB	FIELD
Specific Conductivity (Field)	1675.7	0.50	umhos/cm	1	10/31/24 13:12	SUB	FIELD
Temperature (Field)	18.7		Deg. C	1	10/31/24 13:12	SUB	FIELD
Turbidity	0.02		NTU	1	10/31/24 13:12	SUB	FIELD
pH (Field)	8.15		su	1	10/31/24 13:12	SUB	FIELD

(a) Elevated detection limit due to matrix interference.

(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

(c) Analysis performed at SGS Scott, LA.

(d) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W					Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1A					Date Received:	11/01/24
Matrix:	AQ - Ground Water					Percent Solids:	n/a
Method:	RSK175 MOD						
Project:	GWA_NGL_Water_Well						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FK5376.D	1	11/05/24 12:59	MB	n/a	n/a	GFK389
Run #2	FK5377.D	10	11/05/24 13:06	MB	n/a	n/a	GFK389

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	20.6 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	20.6 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5.12 <sup>a</sup>	0.0080	0.0070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W	Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1B	Date Received:	11/01/24
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GWA_NGL_Water_Well		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria <sup>a</sup>	500	25	CFU/ml	1	11/01/24 11:00	JB	HACH IRB-BART-NOCERT
Slime Forming Bacteria <sup>b</sup>	500	500	CFU/ml	1	11/01/24 11:00	JB	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria <sup>b</sup>	< 200	200	CFU/ml	1	11/01/24 11:00	JB	HC SRB-BART-NO CERT

(a) certification for this test is not offered.  
(b) Certification for this test is not offered.

RL = Reporting Limit

4.3  
4



Report of Analysis

Client Sample ID:	BW_NGL_78801_F_R SESE_30_3N_65W	Date Sampled:	10/31/24
Lab Sample ID:	DA68493-1F	Date Received:	11/01/24
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	GWA_NGL_Water_Well		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	0.0504	0.0020	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Boron	0.199	0.040	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Calcium	13.5	0.40	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Iron	< 0.020	0.020	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Magnesium	3.69	0.10	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Manganese	0.0101	0.0010	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Potassium	1.98	0.20	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Selenium	< 0.00040	0.00040	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Sodium	360	10	mg/l	20	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>
Strontium	0.389	0.020	mg/l	1	11/18/24	11/22/24	CDL EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

- (1) Instrument QC Batch: MA18610  
(2) Prep QC Batch: MP40398

RL = Reporting Limit

**Misc. Forms**

5

**Custody Documents and Other Forms**

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**Includes the following where applicable:**

- Chain of Custody

4036 Youngfield Street, Wheat Ridge, CO 80033  
TEL: 303-425-6021 FAX: 303-425-6854  
[www.accutest.com](http://www.accutest.com)

[illegible]

## DA68493: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: da68493 Client: ABSAROKA Project: GWA  
Date / Time Received: 11/1/2024 2:30:00 PM Delivery Method: hd Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5);  
Cooler Temps (Corrected) °C: Cooler 1: (2.5);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification:			IR Gun
5. Cooler media:			Ice (Bag)

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

	W	or	S	N/A
3. Type of TB Received	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples presented properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Suffiient volume/containers recv'd for analysi	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample:			Intact	
5. Sample recv'd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match sample labe	<input type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
11. % Solids Jar Received?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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: 11/1/2024 2:38:11 PM Reviewer: Date:

**MS Volatiles****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

Page 1 of 1

Job Number: DA68493

Account: ANADACOD Occidental Petroleum Corporation

Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4190-MB	5V85837.D	1	11/04/24	MB	n/a	n/a	V5V4190

The QC reported here applies to the following samples:

Method: SW846 8260B

DA68493-1

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	97% 70-130%
17060-07-0	1,2-Dichloroethane-D4	101% 70-130%
2037-26-5	Toluene-D8	99% 70-130%
460-00-4	4-Bromofluorobenzene	101% 70-130%

## Blank Spike Summary

Page 1 of 1

Job Number: DA68493

Account: ANADACOD Occidental Petroleum Corporation

Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4190-BS	5V85833.D	1	11/04/24	MB	n/a	n/a	V5V4190

The QC reported here applies to the following samples:

Method: SW846 8260B

DA68493-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	52.1	104	70-130
100-41-4	Ethylbenzene	50	51.1	102	70-130
108-88-3	Toluene	50	51.3	103	70-130
	m,p-Xylene	100	103	103	70-130
95-47-6	o-Xylene	50	51.5	103	70-130
1330-20-7	Xylene (total)	150	155	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: DA68493

Account: ANADACOD Occidental Petroleum Corporation

Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA68480-14MS	5V85839A.D	1	11/04/24	MB	n/a	n/a	V5V4190
DA68480-14MSD	5V85840A.D	1	11/04/24	MB	n/a	n/a	V5V4190
DA68480-14	5V85838A.D	1	11/04/24	MB	n/a	n/a	V5V4190

The QC reported here applies to the following samples:

Method: SW846 8260B

DA68493-1

CAS No.	Compound	DA68480-14		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l		%
71-43-2	Benzene	ND	50	50.7	101	50	51.4	103	1	70-130/30
100-41-4	Ethylbenzene	ND	50	50.4	101	50	51.2	102	2	70-130/30
108-88-3	Toluene	ND	50	50.1	100	50	50.9	102	2	70-130/30
	m,p-Xylene	ND	100	102	102	100	103	103	1	70-130/30
95-47-6	o-Xylene	ND	50	51.4	103	50	51.8	104	1	70-130/30
1330-20-7	Xylene (total)	ND	150	154	103	150	155	103	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA68480-14 Limits	
1868-53-7	Dibromofluoromethane	96%	98%	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	99%	70-130%
2037-26-5	Toluene-D8	100%	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	98%	98%	101%	70-130%

\* = Outside of Control Limits.



**GC Volatiles****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: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2957-MB	GA67672.D	1	11/04/24	MB	n/a	n/a	GGA2957

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

DA68493-1

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	100% 60-140%

Method Blank Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK389-MB	FK5365.D	1	11/05/24	MB	n/a	n/a	GFK389

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

DA68493-1A

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	

7.1.2  
7

Blank Spike Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2957-BS	GA67670.D	1	11/04/24	MB	n/a	n/a	GGA2957

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

DA68493-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	1.94	88	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	101%	60-140%

\* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK389-BS	FK5366.D	10	11/05/24	MB	n/a	n/a	GFK389

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

DA68493-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
74-82-8	Methane	0.51	0.605	119	70-135
74-84-0	Ethane	0.956	1.20	126	70-150
74-98-6	Propane	1.4	1.71	122	70-145

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA68480-16MS	GA67673.D	1	11/04/24	MB	n/a	n/a	GGA2957
DA68480-16MSD	GA67674.D	1	11/04/24	MB	n/a	n/a	GGA2957
DA68480-16	GA67675.D	1	11/04/24	MB	n/a	n/a	GGA2957

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

DA68493-1

CAS No.	Compound	DA68480-16 Spike mg/l	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		1.84	84	2.2	1.85	84	1	56-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA68480-16 Limits
120-82-1	1,2,4-Trichlorobenzene	107%	107%	101% 60-140%

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA68428-3MS	FK5368.D	10	11/05/24	MB	n/a	n/a	GFK389
DA68428-3MSD	FK5369.D	10	11/05/24	MB	n/a	n/a	GFK389
DA68428-3 <sup>a</sup>	FK5367.D	1	11/05/24	MB	n/a	n/a	GFK389

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

DA68493-1A

CAS No.	Compound	DA68428-3 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.00095	0.51	0.607	119	0.51	0.615	120	1	20-183/30
74-84-0	Ethane	ND	0.956	1.20	126	0.956	1.22	128	2	50-140/30
74-98-6	Propane	ND	1.4	1.73	123	1.4	1.74	124	1	50-140/30

(a) Analysis performed past the requested holding time.

\* = Outside of Control Limits.

**GC/LC Semi-volatiles****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: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26655-MB	FP078241.D	1	11/05/24	JB	11/05/24	OP26655	GFP124

The QC reported here applies to the following samples: Method: SW846 8015C

DA68493-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.18	0.13	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	89% 61-130%

Blank Spike Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26655-BS	FP078242.D	1	11/05/24	JB	11/05/24	OP26655	GFP124

The QC reported here applies to the following samples: Method: SW846 8015C

DA68493-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	3.64	2.69	74	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	61-130%

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA68493  
Account: ANADACOD Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP26655-MS	FP078243.D	1	11/05/24	JB	11/05/24	OP26655	GFP124
OP26655-MSD	FP078244.D	1	11/05/24	JB	11/05/24	OP26655	GFP124
DA68490-1 <sup>a</sup>	FP078245.D	1	11/05/24	JB	11/05/24	OP26655	GFP124

The QC reported here applies to the following samples: Method: SW846 8015C

DA68493-1

CAS No.	Compound	DA68490-1 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	3.37	2.45	73	3.37	2.23	66	9	65-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA68490-1	Limits
84-15-1	o-Terphenyl	68%	75%	39%*	61-130%

(a) Analysis performed past the recommended method holding time as per client instructions. Limited sample volume as it was used for MS/MSD - reporting with low surrogate. Sample results may be biased low.

\* = Outside of Control Limits.

## Metals Analysis

### QC Data Summaries

6

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: DA68493  
Account: ANADACOD - Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

QC Batch ID: MP40398  
Matrix Type: AQUEOUS

Methods: EPA 200.8  
Units: ug/l

Prep Date: 11/18/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	10		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.3	0.069	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	10	2.7	<40
Cadmium	0.10	.03	.05		
Calcium	400	25	60	14.3	<400
Chromium	2.0	.087	.27		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	1.5		
Iron	20	1.6	10	6.7	<20
Lead	0.50	.094	.13		
Magnesium	100	10	20	0.44	<100
Manganese	1.0	.079	.51	0.087	<1.0
Molybdenum	1.0	.037	.2		
Nickel	2.0	.098	.5		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-12	<200
Selenium	0.40	.05	.1	-0.010	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	70	40.4	<500
Strontium	20	.1	5	0.019	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.5		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2		

Associated samples MP40398: DA68493-1F

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: DA68493  
 Account: ANADACOD - Occidental Petroleum Corporation  
 Project: GWA\_NGL\_Water\_Well

QC Batch ID: MP40398  
 Matrix Type: AQUEOUS

Methods: EPA 200.8  
 Units: ug/l

Prep Date: 11/18/24

Metal	DA68599-3A Original MS		Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr				
Antimony					
Arsenic	anr				
Barium	47.9	430	400	95.5	70-130
Beryllium	anr				
Boron	102	513	400	102.8	70-130
Cadmium	anr				
Calcium	56500	62900	5000	128.0	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	982	1870	1000	88.8	70-130
Lead	anr				
Magnesium	13400	17500	5000	82.0	70-130
Manganese	137	316	200	89.5	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	6230	10500	5000	85.4	70-130
Selenium	1.3	193	200	95.9	70-130
Silver	anr				
Sodium	83500	91700	5000	164.0(a)	70-130
Strontium	418	512	100	94.0	70-130
Thallium	anr				
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP40398: DA68493-1F

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: DA68493  
Account: ANADACOD - Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

QC Batch ID: MP40398  
Matrix Type: AQUEOUS

Methods: EPA 200.8  
Units: ug/l

Prep Date: 11/18/24

	DA68599-3A		Spikelot		MSD	QC
Metal	Original	MSD	ICPMS5	% Rec	RPD	Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	47.9	417	400	92.3		
Beryllium	anr					
Boron	102	509	400	101.8		
Cadmium	anr					
Calcium	56500	62800	5000	126.0		
Chromium	anr					
Cobalt						
Copper	anr					
Iron	982	1820	1000	83.8		
Lead	anr					
Magnesium	13400	17400	5000	80.0		
Manganese	137	314	200	88.5		
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	6230	10700	5000	89.4		
Selenium	1.3	191	200	94.9		
Silver	anr					
Sodium	83500	90100	5000	132.0(a)		
Strontium	418	499	100	81.0		
Thallium	anr					
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP40398: DA68493-1F

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.

## SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA68493  
Account: ANADACOD - Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

QC Batch ID: MP40398  
Matrix Type: AQUEOUS

Methods: EPA 200.8  
Units: ug/l

Prep Date: 11/18/24

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	388	400	97.0	85-115
Beryllium	anr			
Boron	417	400	104.3	85-115
Cadmium	anr			
Calcium	5090	5000	101.8	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	928	1000	92.8	85-115
Lead	anr			
Magnesium	4920	5000	98.4	85-115
Manganese	187	200	93.5	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	5090	5000	101.8	85-115
Selenium	199	200	99.5	85-115
Silver	anr			
Sodium	5050	5000	101.0	85-115
Strontium	95.7	100	95.7	85-115
Thallium	anr			
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP40398: DA68493-1F

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: DA68493  
Account: ANADACOD - Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN65193	5.0	0.0	mg/l	100	101	100.9	90-110%
Alkalinity, Carbonate	GN65194	5.0	0.0	mg/l	100	101	100.9	90-110%
Alkalinity, Total as CaCO3	GN65192	5.0	0.0	mg/l	100	101	100.9	90-110%
Bromide	GP37662/GN65182	0.050	0.0	mg/l	0.5	0.478	95.6	90-110%
Chloride	GP37662/GN65182	0.50	0.0	mg/l	5	4.77	95.4	90-110%
Fluoride	GP37662/GN65182	0.10	0.0	mg/l	1	0.981	98.1	90-110%
Iron-Related Bacteria	MB1809	25	<25 (a)	CFU/ml				
Nitrogen, Nitrate	GP37662/GN65182	0.010	0.0	mg/l	0.1	0.108	108.0	90-110%
Nitrogen, Nitrite	GP37662/GN65182	0.0040	0.0	mg/l	0.05	0.0468	93.6	90-110%
Slime Forming Bacteria	MB1811	500	<500 (b)	CFU/ml				
Solids, Total Dissolved	GN65199	10	0.0	mg/l	250	928	92.8	90-110%
Specific Conductivity	GP37679/GN65203			umhos/cm	10000	1400	99.1	90-110%
Sulfate	GP37662/GN65182	0.50	0.0	mg/l	5	4.95	99.0	90-110%
Sulfate Reducing Bacteria	MB1813	200	<200 (b)	CFU/ml				

Associated Samples:

Batch MB1809: DA68493-1B  
Batch MB1811: DA68493-1B  
Batch MB1813: DA68493-1B  
Batch GN65192: DA68493-1  
Batch GN65193: DA68493-1  
Batch GN65194: DA68493-1  
Batch GN65199: DA68493-1  
Batch GP37662: DA68493-1  
Batch GP37679: DA68493-1

(\*) Outside of QC limits

(a) certification for this test is not offered.

(b) Certification for this test is not offered.

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA68493  
Account: ANADACOD - Occidental Petroleum Corporation  
Project: GWA\_NGL\_Water\_Well

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Iron-Related Bacteria	MB1809	DA68263-1B	CFU/ml	500	500(a)	0.0(a)	0-%
Slime Forming Bacteria	MB1811	DA68263-1B	CFU/ml	<500	<500(b)	0.0(b)	0-%
Solids, Total Dissolved	GN65199	DA68493-1	mg/l	948	956	0.8	0-5.44%
Specific Conductivity	GP37679/GN65203	DA68493-1	umhos/cm	1680	1680	0.2	0-20%
Sulfate Reducing Bacteria	MB1813	DA68263-1B	CFU/ml	<200	<200(b)	0.0(b)	0-%

Associated Samples:

Batch MB1809: DA68493-1B

Batch MB1811: DA68493-1B

Batch MB1813: DA68493-1B

Batch GN65199: DA68493-1

Batch GP37679: DA68493-1

(\*) Outside of QC limits

(a) certification for this test is not offered.

(b) Certification for this test is not offered.

## General Chemistry

### QC Data Summaries

(SGS Scott, LA)

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: DA68493  
Account: ALMS - SGS Wheat Ridge, CO  
Project: ANADACOD: GWA\_NGL\_Water\_Well

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphorus, Total	GP13849/GN30637	0.050	0.0	mg/l	.4	0.25	100.0	90-110%

Associated Samples:  
Batch GP13849: DA68493-1  
(\*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA68493  
Account: ALMS - SGS Wheat Ridge, CO  
Project: ANADACOD: GWA\_NGL\_Water\_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphorus, Total	GP13849/GN30637	LB8922-1	mg/l	0.49	.4	0.70	84.0	80-120%

Associated Samples:

Batch GP13849: DA68493-1

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA68493  
Account: ALMS - SGS Wheat Ridge, CO  
Project: ANADACOD: GWA\_NGL\_Water\_Well

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Phosphorus, Total	GP13849/GN30637	LB8922-1	mg/l	0.49	.4	0.72	2.8	

Associated Samples:  
Batch GP13849: DA68493-1  
(\*) Outside of QC limits  
(N) Matrix Spike Rec. outside of QC limits