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Automated Report

Technical Report for

Chevron USA, Inc.

Schmerge 44-4

123-23143(38713)

SGS Job Number: DA72108

Sampling Date: 05/02/25

Report to:

Chevron USA, Inc.
2115 117th Avenue
Greeley, CO 80634
parna.eskandaripayandeh@sgs.com

ATTN: Karen Olson

Total number of pages in report: 86



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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Test results relate only to samples analyzed.



June 4, 2025

Jason Davidson
Chevron U.S.A. Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: Report Reissue for SGS Job: Multiple Jobs

Dear Jason Davidson,

This revised report includes the updated methods and units in accordance with ECMC standards. Please accept our apologies for any inconvenience this may have caused you.

Any questions or concerns should be directed to the undersigned at 303-425-6021.

Sincerely,

Eric Hoffman
General Manager

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Sample Summary

Chevron USA, Inc.

Job No: DA72108

Schmerge 44-4
Project No: 123-23143(38713)

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

DA72108-1	05/02/25	13:55	JO	05/02/25	SO	Soil	FL01-02@5'
DA72108-1A	05/02/25	13:55	JO	05/02/25	SO	Soil	FL01-02@5'
DA72108-1B	05/02/25	13:55	JO	05/02/25	SO	Soil	FL01-02@5'
DA72108-2	05/02/25	11:39	JO	05/02/25	SO	Soil	BKG01@4'
DA72108-2A	05/02/25	11:39	JO	05/02/25	SO	Soil	BKG01@4'
DA72108-2B	05/02/25	11:39	JO	05/02/25	SO	Soil	BKG01@4'
DA72108-3	05/02/25	11:40	JO	05/02/25	SO	Soil	BKG01@5'
DA72108-3A	05/02/25	11:40	JO	05/02/25	SO	Soil	BKG01@5'
DA72108-3B	05/02/25	11:40	JO	05/02/25	SO	Soil	BKG01@5'
DA72108-4	05/02/25	11:41	JO	05/02/25	SO	Soil	BKG01@7'
DA72108-4A	05/02/25	11:41	JO	05/02/25	SO	Soil	BKG01@7'
DA72108-4B	05/02/25	11:41	JO	05/02/25	SO	Soil	BKG01@7'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: DA72108
Account: Chevron USA, Inc.
Project: Schmerge 44-4
Collected: 05/02/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA72108-1 FL01-02@5'

Benzo(a)anthracene	0.0036 J	0.0053	0.0032	mg/kg	SW846 8270E
Chrysene	0.0041 J	0.0043	0.0016	mg/kg	SW846 8270E
Fluoranthene	0.0016 J	0.0043	0.0016	mg/kg	SW846 8270E
Naphthalene	0.0018 J	0.0021	0.0016	mg/kg	SW846 8270E
Pyrene	0.0020 J	0.0043	0.0016	mg/kg	SW846 8270E
TPH-ORO (> C28-C36) ^a	9.88	5.8	4.8	mg/kg	SW846-8015C
Arsenic	5.4	0.11		mg/kg	SW846 6020B
Barium	196	1.1		mg/kg	SW846 6020B
Cadmium	0.27	0.053		mg/kg	SW846 6020B
Copper	13.4	1.1		mg/kg	SW846 6020B
Lead	11.4	0.26		mg/kg	SW846 6020B
Nickel	15.1	1.1		mg/kg	SW846 6020B
Selenium	0.33	0.21		mg/kg	SW846 6020B
Silver	0.081	0.053		mg/kg	SW846 6020B
Zinc	46.9	5.3		mg/kg	SW846 6020B
pH	7.94			su	WREP-125,4E-SATPASTE
Specific Conductivity	0.52	0.0010		mmhos/cm	SM 2510B-2011 MOD

DA72108-1A FL01-02@5'

Calcium	36.5	4.0		mg/l	SW846 6010C
Magnesium	28.4	2.0		mg/l	SW846 6010C
Sodium	42.5	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b	1.28			ratio	USDA HANDBOOK 60

DA72108-1B FL01-02@5'

No hits reported in this sample.

DA72108-2 BKG01@4'

Arsenic	5.6	0.10		mg/kg	SW846 6020B
Barium	211	1.0		mg/kg	SW846 6020B
Cadmium	0.33	0.052		mg/kg	SW846 6020B
Copper	14.0	1.0		mg/kg	SW846 6020B
Lead	12.4	0.26		mg/kg	SW846 6020B
Nickel	15.5	1.0		mg/kg	SW846 6020B
Selenium	0.32	0.21		mg/kg	SW846 6020B
Silver	0.053	0.052		mg/kg	SW846 6020B
Zinc	50.4	5.2		mg/kg	SW846 6020B
pH	8.16			su	WREP-125,4E-SATPASTE
Specific Conductivity	0.40	0.0010		mmhos/cm	SM 2510B-2011 MOD

Summary of Hits

Job Number: DA72108
Account: Chevron USA, Inc.
Project: Schmerge 44-4
Collected: 05/02/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA72108-2A BKG01@4'

Calcium	23.6	4.0		mg/l	SW846 6010C
Magnesium	24.0	2.0		mg/l	SW846 6010C
Sodium	29.4	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b	1.02			ratio	USDA HANDBOOK 60

DA72108-2B BKG01@4'

No hits reported in this sample.

DA72108-3 BKG01@5'

Arsenic	5.2	0.10		mg/kg	SW846 6020B
Barium	208	1.0		mg/kg	SW846 6020B
Cadmium	0.24	0.052		mg/kg	SW846 6020B
Copper	12.9	1.0		mg/kg	SW846 6020B
Lead	10.3	0.26		mg/kg	SW846 6020B
Nickel	14.8	1.0		mg/kg	SW846 6020B
Selenium	0.21	0.21		mg/kg	SW846 6020B
Silver	0.064	0.052		mg/kg	SW846 6020B
Zinc	45.8	5.2		mg/kg	SW846 6020B
pH	7.99			su	WREP-125,4E-SATPASTE
Specific Conductivity	0.33	0.0010		mmhos/cm	SM 2510B-2011 MOD

DA72108-3A BKG01@5'

Calcium	17.3	4.0		mg/l	SW846 6010C
Magnesium	18.9	2.0		mg/l	SW846 6010C
Sodium	29.4	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b	1.16			ratio	USDA HANDBOOK 60

DA72108-3B BKG01@5'

No hits reported in this sample.

DA72108-4 BKG01@7'

Arsenic	4.7	0.10		mg/kg	SW846 6020B
Barium	168	1.0		mg/kg	SW846 6020B
Cadmium	0.24	0.052		mg/kg	SW846 6020B
Copper	11.7	1.0		mg/kg	SW846 6020B
Lead	9.7	0.26		mg/kg	SW846 6020B
Nickel	14.0	1.0		mg/kg	SW846 6020B
Selenium	0.25	0.21		mg/kg	SW846 6020B

Summary of Hits

Job Number: DA72108
Account: Chevron USA, Inc.
Project: Schmerge 44-4
Collected: 05/02/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Zinc		43.7	5.2		mg/kg	SW846 6020B
pH		7.77			su	WREP-125,4E-SATPASTE
Specific Conductivity		1.4	0.0010		mmhos/cm	SM 2510B-2011 MOD

DA72108-4A BKG01@7'

Calcium		72.1	4.0		mg/l	SW846 6010C
Magnesium		114	2.0		mg/l	SW846 6010C
Sodium		74.8	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		1.28			ratio	USDA HANDBOOK 60

DA72108-4B BKG01@7'

No hits reported in this sample.

- (a) Associated CCV outside control limits biased high. Sample reanalyzed for confirmation with similar results.
Results may be biased high.
- (b) Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8260B		
Project:	Schmerge 44-4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5V90135.D	1	05/08/25 00:34	MB	n/a	n/a	V5V4366
Run #2							

	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0011	0.00053	mg/kg	
100-41-4	Ethylbenzene	ND	0.0021	0.00053	mg/kg	
108-88-3	Toluene	ND	0.0021	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0021	0.00063	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0021	0.00053	mg/kg	
	m,p-Xylene	ND	0.0021	0.0019	mg/kg	
95-47-6	o-Xylene	ND	0.0021	0.00074	mg/kg	
1330-20-7	Xylene (total)	ND	0.0021	0.0019	mg/kg	
	TPH-GRO (C6-C10)	ND	0.21	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		65-135%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%
17060-07-0	1,2-Dichloroethane-D4	107%		70-130%

(a) Soil was not collected to 5035 specifications.

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:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Method:	SW846 8270E SW846 3570		
Project:	Schmerge 44-4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G000672.D	1	05/08/25 19:13	TH	05/07/25 14:00	OP27600	E7G30
Run #2 ^a	3G56807.D	10	05/15/25 11:07	TH	05/07/25 14:00	OP27689	E3G2781

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2	5.0 g	10.0 ml

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0043	0.0017	mg/kg	
120-12-7	Anthracene	ND	0.0043	0.0016	mg/kg	
56-55-3	Benzo(a)anthracene	0.0036	0.0053	0.0032	mg/kg	J
205-99-2	Benzo(b)fluoranthene ^b	ND ^c	0.043	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene ^b	ND ^c	0.043	0.021	mg/kg	
50-32-8	Benzo(a)pyrene ^b	ND ^c	0.043	0.021	mg/kg	
218-01-9	Chrysene	0.0041	0.0043	0.0016	mg/kg	J
53-70-3	Dibenzo(a,h)anthracene ^b	ND ^c	0.043	0.021	mg/kg	
206-44-0	Fluoranthene	0.0016	0.0043	0.0016	mg/kg	J
86-73-7	Fluorene	ND	0.0043	0.0016	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene ^b	ND ^c	0.043	0.021	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.0043	0.0016	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0043	0.0016	mg/kg	
91-20-3	Naphthalene	0.0018	0.0021	0.0016	mg/kg	J
129-00-0	Pyrene	0.0020	0.0043	0.0016	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	98%	142% ^d	10-130%
4165-60-0	Nitrobenzene-d5	101%	128%	10-130%
1718-51-0	Terphenyl-d14	116%	133% ^d	10-130%

(a) Dilution required for matrix interference.

(b) Associated ISTD outside lower control limits at lesser dilution.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

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:	FL01-02@5'		
Lab Sample ID:	DA72108-1	Date Sampled:	05/02/25
Matrix:	SO - Soil	Date Received:	05/02/25
Method:	SW846-8015C SW846 3570	Percent Solids:	93.5
Project:	Schmerge 44-4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW42175.D	1	05/08/25 01:29	JB	05/03/25 10:00	OP27603	GLW995
Run #2 ^a	LW41999.D	1	05/06/25 02:21	JB	05/03/25 10:00	OP27603	GLW991

	Initial Weight	Final Volume
Run #1	5.5 g	10.0 ml
Run #2	5.5 g	10.0 ml

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	3.9	3.7	mg/kg	
	TPH-ORO (> C28-C36) ^b	9.88	5.8	4.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%	77%	20-155%

(a) Confirmation run.

(b) Associated CCV outside control limits biased high. Sample reanalyzed for confirmation with similar results.
Results may be biased high.

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:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.4	0.11	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Barium	196	1.1	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Cadmium	0.27	0.053	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Copper	13.4	1.1	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Lead	11.4	0.26	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Nickel	15.1	1.1	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Selenium	0.33	0.21	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Silver	0.081	0.053	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Zinc	46.9	5.3	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19084

(2) Prep QC Batch: MP41187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	93.5		%	1	05/03/25	JW	SM2540G-2011 M
pH-saturated paste method							
pH	7.94		su	1	05/09/25 10:00	TH	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.52	0.0010	mmhos/cm	1	05/09/25 12:00	TH	SM 2510B-2011 MOD
Chromium, Hexavalent ^a	< 0.43	0.43	mg/kg	1	05/15/25 17:09	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1A	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	36.5	4.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²
Magnesium	28.4	2.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²
Sodium	42.5	4.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²

(1) Instrument QC Batch: MA19099
(2) Prep QC Batch: MP41263

RL = Reporting Limit

Report of Analysis

Client Sample ID: FL01-02@5'
Lab Sample ID: DA72108-1A
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 93.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.28		ratio	1	05/16/25 02:59	CDL	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01-02@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-1B	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	05/07/25	05/19/25 EH	SW846 6010C ¹	HWS-B ²

(1) Instrument QC Batch: MA19115
(2) Prep QC Batch: MP41184

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-2	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.0
Project:	Schmerge 44-4		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.6	0.10	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Barium	211	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Cadmium	0.33	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Copper	14.0	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Lead	12.4	0.26	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Nickel	15.5	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Selenium	0.32	0.21	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Silver	0.053	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Zinc	50.4	5.2	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²

- (1) Instrument QC Batch: MA19084
(2) Prep QC Batch: MP41187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-2	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.0
Project:	Schmerge 44-4		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92		%	1	05/03/25	JW	SM2540G-2011 M
pH-saturated paste method							
pH	8.16		su	1	05/09/25 10:00	TH	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.40	0.0010	mmhos/cm	1	05/09/25 12:00	TH	SM 2510B-2011 MOD
Chromium, Hexavalent ^a	< 0.43	0.43	mg/kg	1	05/15/25 17:32	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-2A	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.0
Project:	Schmerge 44-4		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	23.6	4.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²
Magnesium	24.0	2.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²
Sodium	29.4	4.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²

(1) Instrument QC Batch: MA19099
(2) Prep QC Batch: MP41263

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@4'
Lab Sample ID: DA72108-2A
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 92.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.02		ratio	1	05/16/25 03:02	CDL	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-2B	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.0
Project:	Schmerge 44-4		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	05/07/25	05/19/25 EH	SW846 6010C ¹	HWS-B ²

(1) Instrument QC Batch: MA19115
(2) Prep QC Batch: MP41184

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-3	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.2	0.10	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Barium	208	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Cadmium	0.24	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Copper	12.9	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Lead	10.3	0.26	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Nickel	14.8	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Selenium	0.21	0.21	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Silver	0.064	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Zinc	45.8	5.2	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19084

(2) Prep QC Batch: MP41187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-3	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	93.5		%	1	05/03/25	JW	SM2540G-2011 M
pH-saturated paste method							
pH	7.99		su	1	05/09/25 10:00	TH	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.33	0.0010	mmhos/cm	1	05/09/25 12:00	TH	SM 2510B-2011 MOD
Chromium, Hexavalent ^a	< 0.43	0.43	mg/kg	1	05/15/25 19:08	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@5'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-3A	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	93.5
Project:	Schmerge 44-4		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	17.3	4.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²
Magnesium	18.9	2.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²
Sodium	29.4	4.0	mg/l	1	05/15/25	05/16/25	CDL SW846 6010C ¹	USDA HANDBOOK 60 ²

(1) Instrument QC Batch: MA19099
(2) Prep QC Batch: MP41263

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@5'
Lab Sample ID: DA72108-3A
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 93.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.16		ratio	1	05/16/25 02:46	CDL	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@5'
Lab Sample ID: DA72108-3B
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 93.5

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	05/07/25	05/19/25 EH	SW846 6010C ¹	HWS-B ²

(1) Instrument QC Batch: MA19115
(2) Prep QC Batch: MP41184

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@7'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-4	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.6
Project:	Schmerge 44-4		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.7	0.10	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Barium	168	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Cadmium	0.24	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Copper	11.7	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Lead	9.7	0.26	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Nickel	14.0	1.0	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Selenium	0.25	0.21	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Silver	< 0.052	0.052	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²
Zinc	43.7	5.2	mg/kg	5	05/08/25	05/13/25	CDL SW846 6020B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19084

(2) Prep QC Batch: MP41187

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@7'
Lab Sample ID: DA72108-4
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 92.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92.6		%	1	05/03/25	JW	SM2540G-2011 M
pH-saturated paste method							
pH	7.77		su	1	05/09/25 10:00	TH	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	1.4	0.0010	mmhos/cm	1	05/09/25 12:00	TH	SM 2510B-2011 MOD
Chromium, Hexavalent ^a	< 0.43	0.43	mg/kg	1	05/15/25 20:28	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@7'
Lab Sample ID: DA72108-4A
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 92.6

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	72.1	4.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²
Magnesium	114	2.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²
Sodium	74.8	4.0	mg/l	1	05/15/25	05/16/25 CDL	SW846 6010C ¹	USDA HANDBOOK 60 ²

(1) Instrument QC Batch: MA19099
(2) Prep QC Batch: MP41263

RL = Reporting Limit

Report of Analysis

Client Sample ID: BKG01@7'
Lab Sample ID: DA72108-4A
Matrix: SO - Soil
Project: Schmerge 44-4

Date Sampled: 05/02/25
Date Received: 05/02/25
Percent Solids: 92.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.28		ratio	1	05/16/25 03:05	CDL	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@7'	Date Sampled:	05/02/25
Lab Sample ID:	DA72108-4B	Date Received:	05/02/25
Matrix:	SO - Soil	Percent Solids:	92.6
Project:	Schmerge 44-4		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.50	0.50	mg/l	1	05/07/25	05/19/25 EH	SW846 6010C ¹	HWS-B ²

(1) Instrument QC Batch: MA19115
(2) Prep QC Batch: MP41184

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: da72108 Client: TASMAN Project: SCHMERGE 44-4
Date / Time Received: 5/2/2025 4:03:00 PM Delivery Method: hd 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:	<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 type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

	W	or	S	N/A
3. Type of TB Received	<input 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 type="checkbox"/>		<input type="checkbox"/>	<input checked="" 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: 5/2/2025 4:50:40 PM Reviewer: Date:

MS Volatiles

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QC Data Summaries

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: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4366-MB	5V90113.D	1	05/07/25	MB	n/a	n/a	V5V4366

The QC reported here applies to the following samples:

Method: SW846 8260B

DA72108-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.60	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.50	ug/kg	
	m,p-Xylene	ND	2.0	1.8	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.8	ug/kg	
	TPH-GRO (C6-C10)	ND	200	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106%
2037-26-5	Toluene-D8	98%
460-00-4	4-Bromofluorobenzene	102%
17060-07-0	1,2-Dichloroethane-D4	104%

Blank Spike Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4366-BS	5V90110.D	1	05/07/25	MB	n/a	n/a	V5V4366

The QC reported here applies to the following samples:

Method: SW846 8260B

DA72108-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	50.2	100	70-130
100-41-4	Ethylbenzene	50	49.8	100	70-130
108-88-3	Toluene	50	49.2	98	70-130
95-63-6	1,2,4-Trimethylbenzene	50	52.3	105	70-130
108-67-8	1,3,5-Trimethylbenzene	50	52.8	106	70-130
	m,p-Xylene	100	98.9	99	70-130
95-47-6	o-Xylene	50	49.8	100	70-130
1330-20-7	Xylene (total)	150	149	99	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	65-135%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4366-BS	5V90111.D	1	05/07/25	MB	n/a	n/a	V5V4366

The QC reported here applies to the following samples: Method: SW846 8260B

DA72108-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	1590	80	45-148

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	65-135%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA72106-6MS ^a	5V90116.D	1	05/07/25	MB	n/a	n/a	V5V4366
DA72106-6MSD ^a	5V90117.D	1	05/07/25	MB	n/a	n/a	V5V4366
DA72106-6 ^a	5V90114.D	1	05/07/25	MB	n/a	n/a	V5V4366

The QC reported here applies to the following samples:

Method: SW846 8260B

DA72108-1

CAS No.	Compound	DA72106-6 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	57.8	54.5	94	57.4	49.9	87	9	30-130/30
100-41-4	Ethylbenzene	ND	57.8	52.1	90	57.4	45.7	80	13	12-132/30
108-88-3	Toluene	ND	57.8	52.4	91	57.4	46.6	81	12	23-130/30
95-63-6	1,2,4-Trimethylbenzene	ND	57.8	50.6	88	57.4	44.9	78	12	5-144/30
108-67-8	1,3,5-Trimethylbenzene	ND	57.8	51.4	89	57.4	45.4	79	12	5-136/30
	m,p-Xylene	ND	116	103	89	115	90.7	79	13	10-130/30
95-47-6	o-Xylene	ND	57.8	52.0	90	57.4	46.1	80	12	11-133/30
1330-20-7	Xylene (total)	ND	173	155	89	172	137	79	12	11-131/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72106-6	Limits
1868-53-7	Dibromofluoromethane	106%	106%	104%	65-135%
2037-26-5	Toluene-D8	98%	98%	96%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	100%	98%	70-130%

(a) Soil was not collected to 5035 specifications.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA72106-9MS ^a	5V90118.D	1	05/07/25	MB	n/a	n/a	V5V4366
DA72106-9MSD ^a	5V90119.D	1	05/07/25	MB	n/a	n/a	V5V4366
DA72106-9 ^a	5V90115.D	1	05/07/25	MB	n/a	n/a	V5V4366

The QC reported here applies to the following samples: Method: SW846 8260B

DA72108-1

CAS No.	Compound	DA72106-9 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2240	1590	71	2260	1830	81	14	5-148/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72106-9	Limits
1868-53-7	Dibromofluoromethane	103%	102%	107%	65-135%
2037-26-5	Toluene-D8	96%	100%	96%	70-130%
460-00-4	4-Bromofluorobenzene	100%	102%	103%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	104%	70-130%

(a) Soil was not collected to 5035 specifications.

* = Outside of Control Limits.

5.3.2
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MS Semi-volatiles

QC Data Summaries

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: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27600-MB	7G000627.D	1	05/07/25	TH	05/03/25	OP27600	E7G29

The QC reported here applies to the following samples:

Method: SW846 8270E

DA72108-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.6	ug/kg	
120-12-7	Anthracene	ND	4.0	1.5	ug/kg	
56-55-3	Benzo(a)anthracene	3.2	5.0	3.0	ug/kg	J
218-01-9	Chrysene	ND	4.0	1.5	ug/kg	
206-44-0	Fluoranthene	ND	4.0	1.5	ug/kg	
86-73-7	Fluorene	ND	4.0	1.5	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	1.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	1.5	ug/kg	
91-20-3	Naphthalene	ND	2.0	1.5	ug/kg	
129-00-0	Pyrene	ND	4.0	1.5	ug/kg	

CAS No.	Surrogate Recoveries	Limits
321-60-8	2-Fluorobiphenyl	106% 10-130%
4165-60-0	Nitrobenzene-d5	106% 10-130%
1718-51-0	Terphenyl-d14	111% 10-130%

Method Blank Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27689-MB	3G56787.D	1	05/15/25	TH	05/14/25	OP27689	E3G2781

The QC reported here applies to the following samples: Method: SW846 8270E

DA72108-1

CAS No.	Compound	Result	RL	MDL	Units	Q
205-99-2	Benzo(b)fluoranthene	ND	4.0	2.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	2.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	2.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	2.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
321-60-8	2-Fluorobiphenyl	104% 10-130%
4165-60-0	Nitrobenzene-d5	107% 10-130%
1718-51-0	Terphenyl-d14	107% 10-130%

Blank Spike Summary

Page 1 of 1

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27600-BS	7G000628.D	1	05/07/25	TH	05/03/25	OP27600	E7G29

The QC reported here applies to the following samples:

Method: SW846 8270E

DA72108-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1000	1030	103	31-130
120-12-7	Anthracene	1000	1080	108	46-134
56-55-3	Benzo(a)anthracene	1000	999	100	52-135
218-01-9	Chrysene	1000	1060	106	51-131
206-44-0	Fluoranthene	1000	1040	104	51-137
86-73-7	Fluorene	1000	1070	107	38-130
90-12-0	1-Methylnaphthalene	1000	977	98	18-130
91-57-6	2-Methylnaphthalene	1000	973	97	16-130
91-20-3	Naphthalene	1000	1010	101	5-130
129-00-0	Pyrene	1000	1060	106	48-136

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	101%	10-130%
4165-60-0	Nitrobenzene-d5	105%	10-130%
1718-51-0	Terphenyl-d14	102%	10-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27689-BS	3G56788.D	1	05/15/25	TH	05/14/25	OP27689	E3G2781

The QC reported here applies to the following samples: Method: SW846 8270E

DA72108-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
205-99-2	Benzo(b)fluoranthene	1000	1060	106	50-136
207-08-9	Benzo(k)fluoranthene	1000	969	97	52-134
50-32-8	Benzo(a)pyrene	1000	994	99	50-130
53-70-3	Dibenzo(a,h)anthracene	1000	1010	101	49-136
193-39-5	Indeno(1,2,3-cd)pyrene	1000	986	99	50-139

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	96%	10-130%
4165-60-0	Nitrobenzene-d5	98%	10-130%
1718-51-0	Terphenyl-d14	95%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27600-MS	7G000629.D	1	05/07/25	TH	05/03/25	OP27600	E7G29
OP27600-MSD	7G000630.D	1	05/07/25	TH	05/03/25	OP27600	E7G29
DA72106-17	7G000667.D	1	05/08/25	TH	05/07/25	OP27600	E7G30

The QC reported here applies to the following samples:

Method: SW846 8270E

DA72108-1

CAS No.	Compound	DA72106-17	Spike	MS	MS	Spike	MSD	MSD		Limits
		ug/kg	Q	ug/kg	ug/kg	%	ug/kg	ug/kg	%	RPD Rec/RPD
83-32-9	Acenaphthene	ND		1120	1200	107	1140	1260	111	5 12-130/52
120-12-7	Anthracene	ND		1120	1240	110	1140	1290	112	4 31-130/60
56-55-3	Benzo(a)anthracene	3.8	J	1120	1140	101	1140	1210	105	6 34-130/60
218-01-9	Chrysene	2.1	J	1120	1220	107	1140	1280	110	5 34-130/60
206-44-0	Fluoranthene	2.1	J	1120	1200	106	1140	1260	109	5 32-130/60
86-73-7	Fluorene	ND		1120	1230	110	1140	1290	113	5 20-130/60
90-12-0	1-Methylnaphthalene	ND		1120	1200	107	1140	1250	109	4 10-130/41
91-57-6	2-Methylnaphthalene	1.8	J	1120	1170	105	1140	1190	104	2 14-130/40
91-20-3	Naphthalene	2.0	J	1120	1210	108	1140	1230	108	2 10-130/40
129-00-0	Pyrene	2.1	J	1120	1230	109	1140	1280	111	4 31-130/60

CAS No.	Surrogate Recoveries	MS	MSD	DA72106-17	Limits
321-60-8	2-Fluorobiphenyl	106%	112%	89%	10-130%
4165-60-0	Nitrobenzene-d5	115%	119%	95%	10-130%
1718-51-0	Terphenyl-d14	104%	114%	98%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27689-MS	3G56789.D	1	05/15/25	TH	05/14/25	OP27689	E3G2781
OP27689-MSD	3G56790.D	1	05/15/25	TH	05/14/25	OP27689	E3G2781
DA72265-8 ^a	3G56792.D	1	05/15/25	TH	05/14/25	OP27689	E3G2781

The QC reported here applies to the following samples: Method: SW846 8270E

DA72108-1

CAS No.	Compound	DA72265-8 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
205-99-2	Benzo(b)fluoranthene	ND	1000	1010	101	1000	961	96	5	10-168/60
207-08-9	Benzo(k)fluoranthene	ND	1000	1080	108	1000	1030	103	5	30-130/60
50-32-8	Benzo(a)pyrene	ND	1000	1020	102	1000	971	97	5	10-179/60
53-70-3	Dibenzo(a,h)anthracene	ND	1000	1030	103	1000	982	98	5	20-138/60
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1000	1020	102	1000	976	98	4	17-148/60

CAS No.	Surrogate Recoveries	MS	MSD	DA72265-8	Limits
321-60-8	2-Fluorobiphenyl	99%	98%	91%	10-130%
4165-60-0	Nitrobenzene-d5	103%	100%	90%	10-130%
1718-51-0	Terphenyl-d14	104%	99%	92%	10-130%

(a) Sample reported for QC purposes only.

* = 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: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27603-MB	LW41987.D	1	05/05/25	JB	05/03/25	OP27603	GLW991

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

DA72108-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	4.0	3.8	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.0	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	71% 20-155%

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Blank Spike Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27603-BS	LW41988.D	1	05/05/25	JB	05/03/25	OP27603	GLW991

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

DA72108-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	173	87	41-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	74%	20-155%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27603-BS2	LW41989.D	1	05/06/25	JB	05/03/25	OP27603	GLW991

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

DA72108-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	240	120	43-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	68%	20-155%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27603-MS1	LW41990.D	1	05/06/25	JB	05/03/25	OP27603	GLW991
OP27603-MSD1	LW41991.D	1	05/06/25	JB	05/03/25	OP27603	GLW991
DA72106-14	LW41994.D	1	05/06/25	JB	05/03/25	OP27603	GLW991

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

DA72108-1

CAS No.	Compound	DA72106-14 Spike mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		233	201	86	221	212	96	5	10-160/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72106-14 Limits
84-15-1	o-Terphenyl	71%	76%	67% 20-155%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72108
Account: CHEVRCOG Chevron USA, Inc.
Project: Schmerge 44-4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27603-MS2	LW41992.D	1	05/06/25	JB	05/03/25	OP27603	GLW991
OP27603-MSD2	LW41993.D	1	05/06/25	JB	05/03/25	OP27603	GLW991
DA72106-15	LW41995.D	1	05/06/25	JB	05/03/25	OP27603	GLW991

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

DA72108-1

CAS No.	Compound	DA72106-15 Spike mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-ORO (> C28-C36)	ND		235	290	123	234	285	122	2	10-170/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72106-15 Limits
84-15-1	o-Terphenyl	73%	75%	68% 20-155%

* = 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: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41184
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/07/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	9.9	75		
Antimony	150	30	34		
Arsenic	130	11	23		
Barium	50	.95	6.5		
Beryllium	50	.5	6.5		
Boron	250	6.3	32	-18	<250
Cadmium	50	1.1	6.5		
Calcium	2000	28	250		
Chromium	50	3.4	6.5		
Cobalt	25	4.1	3.2		
Copper	50	2.5	6.5		
Iron	350	9.3	60		
Lead	250	21	32		
Lithium	25	10	6.5		
Magnesium	1000	35	130		
Manganese	25	.85	3.2		
Molybdenum	50	13	14		
Nickel	150	5.7	19		
Phosphorus	500	58	80		
Potassium	5000	180	630		
Selenium	250	46	110		
Silicon	1000	210	750		
Silver	150	2.8	19		
Sodium	2000	43	250		
Strontium	25	.5	3.2		
Thallium	50	30	22		
Tin	300	17	260		
Titanium	50	2.2	6.5		
Uranium	250	57	43		
Vanadium	50	5.2	6.5		
Zinc	150	3.4	19		

Associated samples MP41184: DA72108-1B, DA72108-2B, DA72108-3B, DA72108-4B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

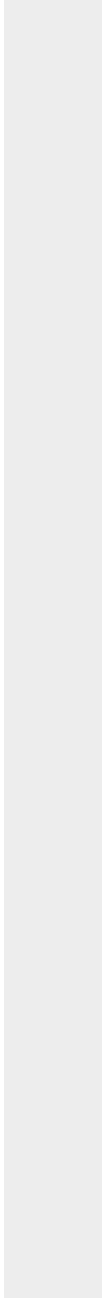
QC Batch ID: MP41184
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/07/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

05/07/25

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

05/07/25

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Prep Date: 05/07/25

Metal	BSP Result	Spikelot ICPALL5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	9230	10000	92.3	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72108

Account: CHEVRCOG - Chevron USA, Inc.

Project: Schmerge 44-4

QC Batch ID: MP41184

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

05/07/25

Metal	BSP Result	Spikelot ICPALL5	% Rec	QC Limits
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(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41184
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/07/25

Metal	DA72109-7B		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	2.30	0.00	100.0(a)	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41184: DA72108-1B, DA72108-2B, DA72108-3B, DA72108-4B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

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Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

	DA72109-7B	QC
Metal	Original SDL 1:5 %DIF	Limits

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41187
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 05/08/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.26	2.5		
Antimony	0.20	.005	.025		
Arsenic	0.10	.025	.025	0.069	* (a)
Barium	1.0	.048	.12	0.19	<1.0
Beryllium	0.10	.038	.02		
Boron	20	9.1	3		
Cadmium	0.050	.015	.01	0.023	<0.050
Calcium	200	13	15		
Chromium	1.0	.043	.3		
Cobalt	0.10	.02	.013		
Copper	1.0	.025	.13	0.18	<1.0
Iron	10	.8	7.5		
Lead	0.25	.047	.1	0.061	<0.25
Magnesium	50	5	5		
Manganese	0.50	.04	.1		
Molybdenum	0.50	.019	.14		
Nickel	1.0	.049	.1	0.083	<1.0
Phosphorus	30	3.8	5		
Potassium	100	1	13		
Selenium	0.20	.025	.025	0.041	<0.20
Silver	0.050	.0041	.015	0.0075	<0.050
Sodium	250	5	15		
Strontium	10	.05	.5		
Thallium	0.10	.016	.02		
Tin	5.0	.11	2		
Titanium	1.0	.025	.15		
Uranium	0.10	.0074	.05		
Vanadium	0.50	.071	.1		
Zinc	5.0	.025	.5	3.1	* (a)

Associated samples MP41187: DA72108-1, DA72108-2, DA72108-3, DA72108-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Element detected in the MB greater than 1/2 the reporting limit. Reported samples are ND or 10x the result of the MB.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41187
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 05/08/25

Metal	DA72108-1 Original MS		Spikelet ICPMS5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	5.4	94.4	104	86.2	75-125
Barium	196	353	208	88.0	75-125
Beryllium					
Boron					
Cadmium	0.27	53.2	52	101.9	75-125
Calcium					
Chromium					
Cobalt					
Copper	13.4	59.6	52	91.8	75-125
Iron					
Lead	11.4	115	104	101.7	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	15.1	59.9	52	89.1	75-125
Phosphorus					
Potassium					
Selenium	0.33	92.2	104	88.4	75-125
Silver	0.081	21.2	20.8	101.7	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	46.9	91.9	52	95.6	75-125

Associated samples MP41187: DA72108-1, DA72108-2, DA72108-3, DA72108-4

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72108
Account: CHEVROG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41187
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 05/08/25

Metal	DA72108-1 Original MSD		Spikelet ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	5.4	91.5	105	82.2	4.0	20
Barium	196	354	211	87.2	0.8	20
Beryllium						
Boron						
Cadmium	0.27	50.7	52.7	95.7	6.2	20
Calcium						
Chromium						
Cobalt						
Copper	13.4	56.7	52.7	84.9	6.9	20
Iron						
Lead	11.4	110	105	95.5	6.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel	15.1	57.5	52.7	83.2	5.9	20
Phosphorus						
Potassium						
Selenium	0.33	91.5	105	86.5	1.9	20
Silver	0.081	20.3	21.1	95.9	5.8	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	46.9	86.5	52.7	84.0	11.6	20

Associated samples MP41187: DA72108-1, DA72108-2, DA72108-3, DA72108-4

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: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41187
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 05/08/25

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	92.0	100	92.0	80-120
Barium	186	200	93.0	80-120
Beryllium				
Boron				
Cadmium	49.1	50	98.2	80-120
Calcium				
Chromium				
Cobalt				
Copper	47.8	50	95.6	80-120
Iron				
Lead	97.5	100	97.5	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	46.7	50	93.4	80-120
Phosphorus				
Potassium				
Selenium	97.7	100	97.7	80-120
Silver	19.8	20	99.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	45.2	50	90.4	80-120

Associated samples MP41187: DA72108-1, DA72108-2, DA72108-3, DA72108-4

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41263
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/15/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1000	460	150		
Antimony	300	140	68		
Arsenic	250	220	46		
Barium	100	3	13		
Beryllium	100	10	13		
Boron	500	33	63		
Cadmium	100	19	13		
Calcium	4000	66	500	375	<4000
Chromium	100	11	13		
Cobalt	50	27	6.3		
Copper	100	46	13		
Iron	700	89	120		
Lead	500	130	63		
Lithium	50	6	13		
Magnesium	2000	500	250	100	<2000
Manganese	50	5	6.3		
Molybdenum	100	85	28		
Nickel	300	62	38		
Phosphorus	1000	910	160		
Potassium	10000	840	1300		
Selenium	500	300	220		
Silicon	2000	410	1500		
Silver	300	6	38		
Sodium	4000	130	500	-74	<4000
Strontium	50	1	6.3		
Thallium	100	170	43		
Tin	600	410	510		
Titanium	100	5	13		
Uranium	500	39	85		
Vanadium	100	9	13		
Zinc	300	90	38		

Associated samples MP41263: DA72108-1A, DA72108-2A, DA72108-3A, DA72108-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

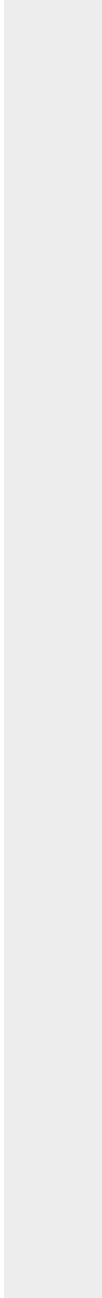
QC Batch ID: MP41263
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/15/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.3.1
8

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

Metal	DA72108-3A Original MS		Spikelot ICPALL5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	17300	575000	625000	89.2	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	18900	588000	625000	91.1	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	29400	625000	625000	95.3	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

05/15/25

	DA72108-3A	Spikelot	QC
Metal	Original MS	ICPALL5 % Rec	Limits

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72108
Account: CHEVROG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41263
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/15/25

Metal	DA72108-3A Original MSD		Spikelot ICPALL5 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	17300	583000	625000	90.5	1.4	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	18900	594000	625000	92.0	1.0	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	29400	629000	625000	95.9	0.6	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP41263: DA72108-1A, DA72108-2A, DA72108-3A, DA72108-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

05/15/25

	DA72108-3A	Spikelot	MSD	QC
Metal	Original MSD	ICPALL5 % Rec	RPD	Limit

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72108

Account: CHEVRCOG - Chevron USA, Inc.

Project: Schmerge 44-4

QC Batch ID: MP41263

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

05/15/25

Metal	BSP Result	Spikelot ICPALL5 % Rec	QC Limits
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(anr) Analyte not requested

8.3.3

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

QC Batch ID: MP41263
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/15/25

Metal	DA72108-3A		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	1730	1630	5.8	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	1890	1880	0.4	0-10
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	2940	2880	2.2	0-10
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41263: DA72108-1A, DA72108-2A, DA72108-3A, DA72108-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Methods: SW846 6010C
Units: ug/l

Metal	DA72108-3A	QC
	Original SDL 1:5	%DIF Limits

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: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP38585/GN66906			mmhos/cm	xxxxxxx	1.4	101.4	90-110%

Associated Samples:
Batch GP38585: DA72108-1, DA72108-2, DA72108-3, DA72108-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72108
Account: CHEVRCOG - Chevron USA, Inc.
Project: Schmerge 44-4

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GP38585/GN66906	DA72109-8	mmhos/cm	0.21	0.22	2.3	0-20%

Associated Samples:
Batch GP38585: DA72108-1, DA72108-2, DA72108-3, DA72108-4
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody



SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # DA72108

10.10.1

SGS

DA72108

SGS Sample Receipt Summary

Job Number: DA72108

Client: SGS NORTH AMERICA INC.

Project: SCHMERGE

Date / Time Received: 5/6/2025 9:45:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (0.9);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature
Y or N

- | | |
|---|--|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Cooler temp verification: IR-50 | |
| 3. Cooler media: Ice (Bag) | |
| 4. No. Coolers: 1 | |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Condition
Y or N

- | | |
|---|--|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Condition of sample: Intact | |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|--|--|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify)
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Comments

 SM089-03
Rev. Date 12/7/17

DA72108: Chain of Custody

Page 2 of 2

General Chemistry

QC Data Summaries

(SGS Dayton, NJ)

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: DA72108
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: Schmerge 44-4

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP61027/GN68291	0.40	0.0	mg/kg	40	40.9	102.3(a)	80-120%
Chromium, Hexavalent	GP61027/GN68291			mg/kg	1090	997	91.7(b)	80-120%
Chromium, Hexavalent	GP61028/GN68325	0.40	0.0	mg/kg	40	41.6	104.0(c)	80-120%
Chromium, Hexavalent	GP61028/GN68325			mg/kg	830	726	87.5(b)	80-120%

Associated Samples:
Batch GP61027: DA72108-1, DA72108-2
Batch GP61028: DA72108-3, DA72108-4
(*) Outside of QC limits
(a) Good recovery on soluble XCR matrix spike. Good recovery (104.7%) on the post-spike.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.
(c) Good recovery on soluble XCR matrix spike. Good recovery (109.22) on the post-spike.

11.1
11

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72108
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: Schmerge 44-4

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP61027/GN68291	DA72106-24	mg/kg	0.52	0.65	22.2(a)	0-20%
Chromium, Hexavalent	GP61028/GN68325	DA72108-3	mg/kg	0.30	0.0	200.0(a)	0-20%

Associated Samples:

Batch GP61027: DA72108-1, DA72108-2

Batch GP61028: DA72108-3, DA72108-4

(*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72108
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: Schmerge 44-4

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP61027/GN68291	DA72106-24	mg/kg	0.52	45.4	41.1	89.4(a)	75-125%
Chromium, Hexavalent	GP61027/GN68291	DA72106-24	mg/kg	0.52	768	685	89.1(b)	75-125%
Chromium, Hexavalent	GP61028/GN68325	DA72108-3	mg/kg	0.30	43.8	43.6	98.8(c)	75-125%
Chromium, Hexavalent	GP61028/GN68325	DA72108-3	mg/kg	0.30	884	768	86.9(b)	75-125%

Associated Samples:

Batch GP61027: DA72108-1, DA72108-2

Batch GP61028: DA72108-3, DA72108-4

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Good recovery on soluble XCR matrix spike. Good recovery (104.7%) on the post-spike.

(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

(c) Good recovery on soluble XCR matrix spike. Good recovery (109.22) on the post-spike.