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Automated Report

Technical Report for

Chevron USA, Inc.

TASMCOA:Goetzel 32C-30-M Flowline

10531

SGS Job Number: DA72889

Sampling Date: 06/06/25

Report to:

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Total number of pages in report: 81

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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SGS North America Inc.

Sample Summary

Chevron USA, Inc.

Job No: DA72889

TASMCOA:Goetzel 32C-30-M Flowline
Project No: 10531

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
DA72889-1	06/06/25	10:00	MD	06/06/25	SO	Soil	FL01R-S@6'
DA72889-1A	06/06/25	10:00	MD	06/06/25	SO	Soil	FL01R-S@6'
DA72889-1B	06/06/25	10:00	MD	06/06/25	SO	Soil	FL01R-S@6'
DA72889-2	06/06/25	10:33	MD	06/06/25	SO	Soil	BKG01@2'
DA72889-2A	06/06/25	10:33	MD	06/06/25	SO	Soil	BKG01@2'
DA72889-2B	06/06/25	10:33	MD	06/06/25	SO	Soil	BKG01@2'
DA72889-3	06/06/25	10:36	MD	06/06/25	SO	Soil	BKG01@3'
DA72889-3A	06/06/25	10:36	MD	06/06/25	SO	Soil	BKG01@3'
DA72889-3B	06/06/25	10:36	MD	06/06/25	SO	Soil	BKG01@3'
DA72889-4	06/06/25	10:39	MD	06/06/25	SO	Soil	BKG01@4'
DA72889-4A	06/06/25	10:39	MD	06/06/25	SO	Soil	BKG01@4'
DA72889-4B	06/06/25	10:39	MD	06/06/25	SO	Soil	BKG01@4'

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

Summary of Hits

Job Number: DA72889
Account: Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline
Collected: 06/06/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA72889-1	**FL01R-S@6'**					
TPH-ORO (> C28-C36)		10.0	7.1	5.9	mg/kg	SW846-8015C
Arsenic		4.9	0.11		mg/kg	SW846 6020B
Barium		90.1	1.1		mg/kg	SW846 6020B
Cadmium		0.20	0.056		mg/kg	SW846 6020B
Copper		9.2	1.1		mg/kg	SW846 6020B
Lead		8.3	0.28		mg/kg	SW846 6020B
Nickel		10.5	1.1		mg/kg	SW846 6020B
Selenium		0.25	0.22		mg/kg	SW846 6020B
Zinc		36.6	5.6		mg/kg	SW846 6020B
pH		7.88			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.61	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA72889-1A	**FL01R-S@6'**					
Calcium		40.1	4.0		mg/l	SW846 6010C
Magnesium		31.9	2.0		mg/l	SW846 6010C
Sodium		35.9	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.03			ratio	USDA HANDBOOK 60
DA72889-1B	**FL01R-S@6'**					
No hits reported in this sample.						
DA72889-2	**BKG01@2'**					
Arsenic		4.6	0.10		mg/kg	SW846 6020B
Barium		101	1.0		mg/kg	SW846 6020B
Cadmium		0.18	0.050		mg/kg	SW846 6020B
Copper		7.9	1.0		mg/kg	SW846 6020B
Lead		7.7	0.25		mg/kg	SW846 6020B
Nickel		10.5	1.0		mg/kg	SW846 6020B
Selenium		0.21	0.20		mg/kg	SW846 6020B
Zinc		30.8	5.0		mg/kg	SW846 6020B
pH		7.63			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.75	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA72889-2A	**BKG01@2'**					
Calcium		74.9	4.0		mg/l	SW846 6010C
Magnesium		27.1	2.0		mg/l	SW846 6010C
Sodium		46.3	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.17			ratio	USDA HANDBOOK 60

Summary of Hits

Job Number: DA72889
Account: Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline
Collected: 06/06/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA72889-2B	**BKG01@2'**					
No hits reported in this sample.						
DA72889-3	**BKG01@3'**					
Arsenic		5.1	0.10		mg/kg	SW846 6020B
Barium		95.3	1.0		mg/kg	SW846 6020B
Cadmium		0.19	0.052		mg/kg	SW846 6020B
Copper		9.0	1.0		mg/kg	SW846 6020B
Lead		9.3	0.26		mg/kg	SW846 6020B
Nickel		12.0	1.0		mg/kg	SW846 6020B
Selenium		0.23	0.21		mg/kg	SW846 6020B
Zinc		37.7	5.2		mg/kg	SW846 6020B
pH		7.73			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.75	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA72889-3A	**BKG01@3'**					
Calcium		73.3	4.0		mg/l	SW846 6010C
Magnesium		27.5	2.0		mg/l	SW846 6010C
Sodium		39.1	4.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.988			ratio	USDA HANDBOOK 60
DA72889-3B	**BKG01@3'**					
No hits reported in this sample.						
DA72889-4	**BKG01@4'**					
Arsenic		4.8	0.10		mg/kg	SW846 6020B
Barium		102	1.0		mg/kg	SW846 6020B
Cadmium		0.12	0.052		mg/kg	SW846 6020B
Copper		7.0	1.0		mg/kg	SW846 6020B
Lead		7.2	0.26		mg/kg	SW846 6020B
Nickel		8.8	1.0		mg/kg	SW846 6020B
Zinc		28.8	5.2		mg/kg	SW846 6020B
pH		7.68			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.65	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA72889-4A	**BKG01@4'**					
Calcium		59.7	4.0		mg/l	SW846 6010C
Magnesium		22.8	2.0		mg/l	SW846 6010C
Sodium		34.1	4.0		mg/l	SW846 6010C

Summary of Hits

Job Number: DA72889
Account: Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline
Collected: 06/06/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium Adsorption Ratio [a]		0.952			ratio	USDA HANDBOOK 60

DA72889-4B **BKG01@4'**

No hits reported in this sample.

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
Method:	SW846 8260B	**Percent Solids:**	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4V36450.D	1	06/16/25 17:45	MB	n/a	n/a	V4V1843
Run #2							

	Initial Weight	Final Volume
Run #1	5.23 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	0.0024	0.00058	mg/kg	
100-41-4	Ethylbenzene	ND	0.0023	0.00058	mg/kg	
108-88-3	Toluene	ND	0.0023	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0023	0.00069	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0023	0.00058	mg/kg	
	m,p-Xylene	ND	0.0046	0.0021	mg/kg	
95-47-6	o-Xylene	ND	0.0023	0.00081	mg/kg	
1330-20-7	Xylene (total)	ND	0.0023	0.0021	mg/kg	
	TPH-GRO (C6-C10)	ND	0.23	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-130%

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

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G18171.D	1	06/12/25 23:10	ZL	06/11/25 16:45	OP27843	E6G687
Run #2							

	Initial Weight	Final Volume
Run #1	5.6 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0043	0.0022	mg/kg	
120-12-7	Anthracene	ND	0.0043	0.0022	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0054	0.0032	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0043	0.0022	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0043	0.0022	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0043	0.0022	mg/kg	
218-01-9	Chrysene	ND	0.0043	0.0022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0043	0.0022	mg/kg	
206-44-0	Fluoranthene	ND	0.0043	0.0022	mg/kg	
86-73-7	Fluorene	ND	0.0043	0.0022	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0043	0.0022	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.0043	0.0022	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0043	0.0022	mg/kg	
91-20-3	Naphthalene	ND	0.0022	0.0016	mg/kg	
129-00-0	Pyrene	ND	0.0043	0.0022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	68%		10-130%
4165-60-0	Nitrobenzene-d5	74%		10-130%
1718-51-0	Terphenyl-d14	77%		10-130%

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

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW43561.D	1	06/10/25 06:40	JB	06/09/25 10:00	OP27830	GLW1014
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	4.7	4.5	mg/kg	
	TPH-ORO (> C28-C36)	10.0	7.1	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		20-142%

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:	FL01R-S@6'		
Lab Sample ID:	DA72889-1	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.9	0.11	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	90.1	1.1	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.20	0.056	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	9.2	1.1	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	8.3	0.28	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	10.5	1.1	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	0.25	0.22	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.056	0.056	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	36.6	5.6	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19255
(2) Prep QC Batch: MP41546

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	82.9		%	1	06/09/25	JB	SM2540G-2011 M
pH-saturated paste method							
pH	7.88		su	1	06/13/25 10:13	TMP	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.61	0.0010	mmhos/cm	1	06/13/25 12:00	TMP	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.48	0.48	mg/kg	1	06/15/25 19:09	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	40.1	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	31.9	2.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	35.9	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19262
(2) Prep QC Batch: MP41554

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL01R-S@6'		
Lab Sample ID:	DA72889-1A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.03		ratio	1	06/19/25 18:47	BR	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:	FL01R-S@6'		
Lab Sample ID:	DA72889-1B	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	82.9
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

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	06/10/25	06/16/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19256
(2) Prep QC Batch: MP41513

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@2'		
Lab Sample ID:	DA72889-2	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	89.6
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.6	0.10	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	101	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.18	0.050	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	7.9	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	7.7	0.25	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	10.5	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	0.21	0.20	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.050	0.050	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	30.8	5.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19255
(2) Prep QC Batch: MP41546

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@2'		
Lab Sample ID:	DA72889-2	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	89.6
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	89.6		%	1	06/09/25	JB	SM2540G-2011 M
pH-saturated paste method							
pH	7.63		su	1	06/13/25 10:13	TMP	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.75	0.0010	mmhos/cm	1	06/13/25 12:00	TMP	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.44	0.44	mg/kg	1	06/15/25 19:33	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@2'		
Lab Sample ID:	DA72889-2A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	89.6
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	74.9	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	27.1	2.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	46.3	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19262
(2) Prep QC Batch: MP41554

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@2'		
Lab Sample ID:	DA72889-2A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	89.6
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.17		ratio	1	06/19/25 18:50	BR	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@2'		
Lab Sample ID:	DA72889-2B	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	89.6
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

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	06/10/25	06/16/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19256
(2) Prep QC Batch: MP41513

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@3'		
Lab Sample ID:	DA72889-3	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	92.0
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.1	0.10	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	95.3	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.19	0.052	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	9.0	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	9.3	0.26	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	12.0	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	0.23	0.21	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.052	0.052	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	37.7	5.2	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19255
(2) Prep QC Batch: MP41546

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@3'		
Lab Sample ID:	DA72889-3	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	92.0
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92		%	1	06/09/25	JB	SM2540G-2011 M
pH-saturated paste method							
pH	7.73		su	1	06/13/25 10:13	TMP	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.75	0.0010	mmhos/cm	1	06/13/25 12:00	TMP	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.45	0.45	mg/kg	1	06/15/25 19:41	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@3'		
Lab Sample ID:	DA72889-3A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	92.0
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	73.3	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	27.5	2.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	39.1	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19262
(2) Prep QC Batch: MP41554

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@3'		
Lab Sample ID:	DA72889-3A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	92.0
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.988		ratio	1	06/19/25 18:53	BR	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@3'		
Lab Sample ID:	DA72889-3B	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	92.0
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

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	06/10/25	06/16/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19256
(2) Prep QC Batch: MP41513

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'		
Lab Sample ID:	DA72889-4	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	93.5
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8	0.10	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	102	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.12	0.052	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	7.0	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	7.2	0.26	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	8.8	1.0	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.052	0.052	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	28.8	5.2	mg/kg	5	06/16/25	06/17/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19255
(2) Prep QC Batch: MP41546

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	BKG01@4'		
Lab Sample ID:	DA72889-4	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	93.5
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	93.5		%	1	06/09/25	JB	SM2540G-2011 M
pH-saturated paste method							
pH	7.68		su	1	06/13/25 10:13	TMP	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.65	0.0010	mmhos/cm	1	06/13/25 12:00	TMP	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.42	0.42	mg/kg	1	06/15/25 20:04	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'		
Lab Sample ID:	DA72889-4A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	93.5
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	59.7	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	22.8	2.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	34.1	4.0	mg/l	1	06/18/25	06/19/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19262
(2) Prep QC Batch: MP41554

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BKG01@4'		
Lab Sample ID:	DA72889-4A	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	93.5
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.952		ratio	1	06/19/25 18:55	BR	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'		
Lab Sample ID:	DA72889-4B	**Date Sampled:**	06/06/25
Matrix:	SO - Soil	**Date Received:**	06/06/25
		Percent Solids:	93.5
Project:	TASMCOA:Goetzel 32C-30-M Flowline		

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	06/10/25	06/16/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19256
(2) Prep QC Batch: MP41513

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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

Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job #: DA72889

Client / Reporting Information

Company: PDC / Tasman
Street: 4725 Independence St.
City, State ZIP: Wheat Ridge / CO / 80023
Project Contact: Karen Olson
Phone: 720-340-6246
Email: karen.olson@chevron.com; tas-chevron-2@tasman-geo.com; rbueu127@chevron.com
Sampler(s) Name(s): Mitchai Dizer

Project Information

Project Name: Goetzel 32C-30-M Flowline
Check Box if Project Report to Division of Oil and Public Safety (OPS): ☐
Street:
City, State ZIP: CO
Project #: 10531
Client Purchase Order #: uWRWE-A5118-AFES
Project Manager: Mike Medina
Billing Information (if different from Report to)
Company: PDC
Street Address:
City, State ZIP:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; D=dissolved metals; PD=Potentially dissolved; TR=Total recoverable

Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MeOH	ENCORE	Na2S2O3	NaZSO3	915-VOC	915-PAH	915-TPH	pH, EC, SAR, Boron	915-Metals**	Chlorides (Cl), Sulfates (SO4)	Total Dissolved Solids (TDS)	LAB USE ONLY
FLOIR-SQ6'	6/6/25	1000	MD	SO	4	X										X	X	X	X	X			C1
BKGOI@2'	↓	1033	↓	↓	2	↓													X	X			C2
BKGOI@3'		1036			↓														↓	↓			C3
BKGOI@4'	↓	1039	↓	↓		↓																	C4

Turnaround Time (Business days)

- ☒ 10 Business Days
- ☐ 5 Business Days
- ☐ 3 Business Days RUSH
- ☐ 2 Business Days RUSH
- ☐ 1 Business Day EMERGENCY

Emergency & Rush T/A data available via Email or LabLink. RUSH TAT approval needed.

Special Reporting Instructions
- ☐ Report in PPB
- ☐ Report in PPM
- ☐ Report MDLs

Data Deliverable Information

- ☐ Commercial "A" (Level 1, Results Only)
- ☐ Commercial "B" (Level 2, Results + QC Summary)
- ☐ COMMBN (Results/QC/Narrative)
- ☐ COMMBN+ (Results/QC/Narrative (+ chromatograms))
- ☐ REDT2 (Results/QC Summary/partial raw data)
- ☐ FULT1
- ☒ EDD Format Tasman

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier, Fed Ex, USP, USPS delivery. HD

Relinquished by Sampler/Affiliation:	Date/Time:	Received By/Affiliation:	Relinquished By/Affiliation:	Date/Time:	Received By/Affiliation:
1	6/6/25 1600	1 6-6-25 1600	2		2
Relinquished by/Affiliaction:	Date/Time:	Received By/Affiliation:	Relinquished By/Affiliation:	Date/Time:	Received By/Affiliation:
3		3	4		4

Custody Seal #: Intact ☑ Not Intact ☐ Absent ☐
Preserved where applicable ☑ Cooler Temp. °C (corrected): 2.1 Therm. ID: T025 On Ice ☑

http://www.sgs.com/en/terms-and-conditions

FORM: EHSA-QAC-0027-03-FORM-Wheat Ridge - COC; RV 2/20/2025

SGS Sample Receipt Summary

Job Number: da72889 **Client:** TASMAN **Project:** GOETZEL 32C-30-M FL

Date / Time Received: 6/6/2025 4:00:00 PM **Delivery Method:** hd **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑

	W	or	S	N/A
3. Type of TB Received	☐		☐	☐

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

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals

Test Strip Lot #s: pH 0-3: pH 10-12: Other: (Specify)

Residual Chlorine Test Strip Lot

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 6/6/2025 4:33:32 PM Reviewer: Date:

MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1843-MB	4V36442.D	1	06/16/25	MB	n/a	n/a	V4V1843

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

DA72889-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	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	4.0	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	120	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	70-130%

Blank Spike Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1843-BS	4V36439.D	1	06/16/25	MB	n/a	n/a	V4V1843

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

DA72889-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	49.0	98	70-130
100-41-4	Ethylbenzene	50	47.8	96	70-130
108-88-3	Toluene	50	44.9	90	70-130
95-63-6	1,2,4-Trimethylbenzene	50	45.7	91	70-130
108-67-8	1,3,5-Trimethylbenzene	50	45.5	91	70-130
	m,p-Xylene	100	94.9	95	70-130
95-47-6	o-Xylene	50	51.8	104	70-130
1330-20-7	Xylene (total)	150	147	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4V1843-BS	4V36440.D	1	06/16/25	MB	n/a	n/a	V4V1843

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

DA72889-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	2070	104	50-200

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA72909-3MS	4V36445.D	1	06/16/25	MB	n/a	n/a	V4V1843
DA72909-3MSD	4V36446.D	1	06/16/25	MB	n/a	n/a	V4V1843
DA72909-3	4V36443.D	1	06/16/25	MB	n/a	n/a	V4V1843

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

DA72889-1

CAS No.	Compound	DA72909-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50.4	50.4	100	48	47.7	99	6	43-130/30
100-41-4	Ethylbenzene	ND		50.4	49.2	98	48	46.9	98	5	15-145/30
108-88-3	Toluene	ND		50.4	48.9	97	48	47.4	99	3	37-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50.4	45.5	90	48	46.4	97	2	5-177/30
108-67-8	1,3,5-Trimethylbenzene	ND		50.4	46.3	92	48	46.3	96	0	6-159/30
	m,p-Xylene	ND		101	97.1	96	96.1	92.7	96	5	21-142/30
95-47-6	o-Xylene	ND		50.4	49.9	99	48	47.1	98	6	25-140/30
1330-20-7	Xylene (total)	ND		151	147	97	144	140	97	5	17-142/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72909-3	Limits
1868-53-7	Dibromofluoromethane	100%	103%	108%	70-130%
2037-26-5	Toluene-D8	99%	99%	91%	70-130%
460-00-4	4-Bromofluorobenzene	109%	115%	88%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	109%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA72910-7MS	4V36447.D	1	06/16/25	MB	n/a	n/a	V4V1843
DA72910-7MSD	4V36448.D	1	06/16/25	MB	n/a	n/a	V4V1843
DA72910-7	4V36444.D	1	06/16/25	MB	n/a	n/a	V4V1843

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

DA72889-1

CAS No.	Compound	DA72910-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		2030	378	19	2030	1890	93	133* [a]	5-200/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72910-7	Limits
1868-53-7	Dibromofluoromethane	117%	105%	108%	70-130%
2037-26-5	Toluene-D8	91%	93%	92%	70-130%
460-00-4	4-Bromofluorobenzene	93%	89%	90%	70-130%
17060-07-0	1,2-Dichloroethane-D4	114%	100%	103%	70-130%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

MS Semi-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

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27843-MB	6G18154.D	1	06/12/25	ZL	06/11/25	OP27843	E6G687

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

DA72889-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	2.0	ug/kg	
120-12-7	Anthracene	ND	4.0	2.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	3.0	ug/kg	
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	
218-01-9	Chrysene	ND	4.0	2.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	2.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	2.0	ug/kg	
86-73-7	Fluorene	ND	4.0	2.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	2.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	2.0	1.5	ug/kg	
129-00-0	Pyrene	ND	4.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	77%	10-130%
4165-60-0	Nitrobenzene-d5	70%	10-130%
1718-51-0	Terphenyl-d14	97%	10-130%

Blank Spike Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27843-BS	6G18155.D	1	06/12/25	ZL	06/11/25	OP27843	E6G687

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

DA72889-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	200	172	86	31-130
120-12-7	Anthracene	200	171	86	46-134
56-55-3	Benzo(a)anthracene	200	155	78	52-135
205-99-2	Benzo(b)fluoranthene	200	175	88	50-136
207-08-9	Benzo(k)fluoranthene	200	172	86	52-134
50-32-8	Benzo(a)pyrene	200	166	83	50-130
218-01-9	Chrysene	200	179	90	51-131
53-70-3	Dibenzo(a,h)anthracene	200	168	84	49-136
206-44-0	Fluoranthene	200	174	87	51-137
86-73-7	Fluorene	200	164	82	38-130
193-39-5	Indeno(1,2,3-cd)pyrene	200	165	83	50-139
90-12-0	1-Methylnaphthalene	200	171	86	18-130
91-57-6	2-Methylnaphthalene	200	169	85	16-130
91-20-3	Naphthalene	200	158	79	5-130
129-00-0	Pyrene	200	176	88	48-136

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	77%	10-130%
4165-60-0	Nitrobenzene-d5	75%	10-130%
1718-51-0	Terphenyl-d14	96%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27843-MS	6G18156.D	1	06/12/25	ZL	06/11/25	OP27843	E6G687
OP27843-MSD	6G18157.D	1	06/12/25	ZL	06/11/25	OP27843	E6G687
DA72883-9	6G18179.D	1	06/13/25	ZL	06/11/25	OP27843	E6G687

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

DA72889-1

CAS No.	Compound	DA72883-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		193	170	88	204	184	90	8	12-130/52
120-12-7	Anthracene	ND		193	171	88	204	182	89	6	31-130/60
56-55-3	Benzo(a)anthracene	ND		193	160	83	204	173	85	8	34-130/60
205-99-2	Benzo(b)fluoranthene	ND		193	181	94	204	179	88	1	10-168/60
207-08-9	Benzo(k)fluoranthene	ND		193	174	90	204	198	97	13	30-130/60
50-32-8	Benzo(a)pyrene	ND		193	170	88	204	180	88	6	10-179/60
218-01-9	Chrysene	ND		193	174	90	204	188	92	8	34-130/60
53-70-3	Dibenzo(a,h)anthracene	ND		193	166	86	204	172	84	4	20-138/60
206-44-0	Fluoranthene	ND		193	166	86	204	179	88	8	32-130/60
86-73-7	Fluorene	ND		193	165	85	204	176	86	6	20-130/60
193-39-5	Indeno(1,2,3-cd)pyrene	ND		193	163	84	204	171	84	5	17-148/60
90-12-0	1-Methylnaphthalene	ND		193	165	85	204	179	88	8	10-130/41
91-57-6	2-Methylnaphthalene	ND		193	162	84	204	174	85	7	14-130/40
91-20-3	Naphthalene	ND		193	152	79	204	163	80	7	10-130/40
129-00-0	Pyrene	ND		193	181	94	204	199	97	9	31-130/60

CAS No.	Surrogate Recoveries	MS	MSD	DA72883-9	Limits
321-60-8	2-Fluorobiphenyl	77%	81%	85%	10-130%
4165-60-0	Nitrobenzene-d5	73%	77%	81%	10-130%
1718-51-0	Terphenyl-d14	96%	98%	101%	10-130%

* = 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: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27830-MB	LW43544.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014

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

DA72889-1

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	96%	20-142%

Blank Spike Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27830-BS	LW43545.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014

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

DA72889-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	181	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	104%	20-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27830-BS2	LW43546.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014

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

DA72889-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	235	118	70-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	92%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27830-MS1	LW43547.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014
OP27830-MSD1	LW43548.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014
DA72883-10	LW43551.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014

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

DA72889-1

CAS No.	Compound	DA72883-10 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		223	187	84	206	180	88	4	59-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72883-10	Limits
84-15-1	o-Terphenyl	97%	86%	72%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA72889
Account: CHEVRCOG Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27830-MS2	LW43549.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014
OP27830-MSD2	LW43550.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014
DA72883-11	LW43552.D	1	06/10/25	JB	06/09/25	OP27830	GLW1014

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

DA72889-1

CAS No.	Compound	DA72883-11 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)	6.03	J	195	231	115	186	222	116	4	70-153/30

CAS No.	Surrogate Recoveries	MS	MSD	DA72883-11	Limits
84-15-1	o-Terphenyl	85%	88%	88%	20-142%

* = 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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/10/25

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	-15	<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 MP41513: DA72889-1B, DA72889-2B, DA72889-3B, DA72889-4B

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/10/25

Metal	RL	IDL	MDL	MB raw	final

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/10/25

Metal	DA72890-2B Original	DUP	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	113	96.0	16.3	0-20
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 MP41513: DA72889-1B, DA72889-2B, DA72889-3B, DA72889-4B

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/10/25

	DA72890-2B		QC
Metal	Original DUP	RPD	Limits

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/10/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	14200	14000	101.4	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				

Associated samples MP41513: DA72889-1B, DA72889-2B, DA72889-3B, DA72889-4B

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41513
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/10/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits

(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41546 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/16/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.26	2.5		
Antimony	0.20	.005	.025		
Arsenic	0.10	.025	.025	0.017	<0.10
Barium	1.0	.048	.12	0.048	<1.0
Beryllium	0.10	.038	.02		
Boron	20	9.1	5		
Cadmium	0.050	.015	.02	0.0072	<0.050
Calcium	200	13	15		
Chromium	1.0	.043	.3		
Cobalt	0.10	.02	.013		
Copper	1.0	.025	.13	0.088	<1.0
Iron	10	.8	7.5		
Lead	0.25	.047	.1	0.0069	<0.25
Magnesium	50	5	5		
Manganese	0.50	.04	.1		
Molybdenum	0.50	.019	.14		
Nickel	1.0	.049	.1	0.12	<1.0
Phosphorus	30	3.8	13		
Potassium	100	1	13		
Selenium	0.20	.025	.025	0.0071	<0.20
Silver	0.050	.0041	.015	0.0013	<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	-0.049	<5.0

Associated samples MP41546: DA72889-1, DA72889-2, DA72889-3, DA72889-4

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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41546
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 06/16/25

Metal	DA72883-4 Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	4.4	108	109	94.9	75-125
Barium	89.1	312	218	102.1	75-125
Beryllium					
Boron					
Cadmium	0.16	55.4	54.6	101.2	75-125
Calcium					
Chromium					
Cobalt					
Copper	8.2	60.3	54.6	95.4	75-125
Iron					
Lead	8.4	120	109	102.2	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	9.1	60.8	54.6	94.7	75-125
Phosphorus					
Potassium					
Selenium	0.25	103	109	94.1	75-125
Silver	0.022	22.0	21.8	100.7	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	33.0	87.1	54.6	99.1	75-125

Associated samples MP41546: DA72889-1, DA72889-2, DA72889-3, DA72889-4

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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41546 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/16/25

Metal	DA72883-4 Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	4.4	106	106	95.6	1.9	20
Barium	89.1	312	213	104.8	0.0	20
Beryllium						
Boron						
Cadmium	0.16	54.6	53.2	102.4	1.5	20
Calcium						
Chromium						
Cobalt						
Copper	8.2	59.8	53.2	97.1	0.8	20
Iron						
Lead	8.4	118	106	103.1	1.7	20
Magnesium						
Manganese						
Molybdenum						
Nickel	9.1	60.0	53.2	95.8	1.3	20
Phosphorus						
Potassium						
Selenium	0.25	101	106	94.8	2.0	20
Silver	0.022	21.5	21.3	101.0	2.3	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	33.0	87.3	53.2	102.2	0.2	20

Associated samples MP41546: DA72889-1, DA72889-2, DA72889-3, DA72889-4

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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41546
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 06/16/25

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	101	100	101.0	80-120
Barium	200	200	100.0	80-120
Beryllium				
Boron				
Cadmium	50.3	50	100.6	80-120
Calcium				
Chromium				
Cobalt				
Copper	50.7	50	101.4	80-120
Iron				
Lead	102	100	102.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	50.3	50	100.6	80-120
Phosphorus				
Potassium				
Selenium	100	100	100.0	80-120
Silver	19.9	20	99.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	50.0	50	100.0	80-120

Associated samples MP41546: DA72889-1, DA72889-2, DA72889-3, DA72889-4

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41546
Matrix Type: SOLID

Methods: SW846 6020B
Units: ug/l

Prep Date: 06/16/25

Metal	DA72883-4 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	47.4	48.1	1.5	0-20
Barium	968	944	2.5	0-20
Beryllium				
Boron				
Cadmium	1.75	1.87	6.8	0-20
Calcium				
Chromium				
Cobalt				
Copper	88.7	88.9	0.2	0-20
Iron				
Lead	91.4	85.5	6.4	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	99.0	102	2.5	0-20
Phosphorus				
Potassium				
Selenium	2.69	3.23	19.8	0-20
Silver	0.234	0.206	11.9	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	359	366	2.1	0-20

Associated samples MP41546: DA72889-1, DA72889-2, DA72889-3, DA72889-4

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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

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	-71	<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	92.0	<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	389	<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 MP41554: DA72889-1A, DA72889-2A, DA72889-3A, DA72889-4A

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	RL	IDL	MDL	MB raw	final

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	DA72883-8A Original MS		Spikelot ICPALL6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	23100	265000	250000	96.8	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	15500	254000	250000	95.4	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	24900	273000	250000	99.2	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP41554: DA72889-1A, DA72889-2A, DA72889-3A, DA72889-4A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	DA72883-8A Original MS	Spikelot ICPALL6	% Rec	QC Limits

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/18/25

Metal	DA72883-8A Original	MSD	Spikelot ICPALL6	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	23100	273000	250000	100.0	3.0	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	15500	263000	250000	99.0	3.5	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	24900	280000	250000	102.0	2.5	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP41554: DA72889-1A, DA72889-2A, DA72889-3A, DA72889-4A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/18/25

Metal	DA72883-8A Original MSD	Spikelot ICPALL6 % Rec	MSD RPD	QC Limit

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	243000	250000	97.2	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	239000	250000	95.6	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	249000	250000	99.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41554: DA72889-1A, DA72889-2A, DA72889-3A, DA72889-4A

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

Metal	DA72883-8A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	2310	2410	4.1	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	1550	1470	5.0	0-10
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	2490	2550	2.4	0-10
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41554: DA72889-1A, DA72889-2A, DA72889-3A, DA72889-4A

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

QC Batch ID: MP41554
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/18/25

	DA72883-8A		QC
Metal	Original SDL 1:5	%DIF	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: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP38780/GN67373			mmhos/cm	xxxxxxxx	1.5	103.8	90-110%

Associated Samples:
Batch GP38780: DA72889-1, DA72889-2, DA72889-3, DA72889-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72889
Account: CHEVRCOG - Chevron USA, Inc.
Project: TASMCOA:Goetzel 32C-30-M Flowline

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GP38780/GN67373	DA72891-1	mmhos/cm	1.3	1.3	0.4	0-20%
pH	GN67368	DA72883-8	su	7.87	8.89	0.2	0-5%

Associated Samples:
Batch GN67368: DA72889-1, DA72889-2, DA72889-3, DA72889-4
Batch GP38780: DA72889-1, DA72889-2, DA72889-3, DA72889-4
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody

SGS

SO

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 #: DA72889

Client / Reporting Information	Project Information	Billing Information (if different from Report to)
Company Name: SGS North America Inc.	Project Name: TASMCOA: Goetzel 32C-30-M Flowline, UWRWE-A5118-AES	
Street Address: 4036 Youngfield Street	Street	Company Name
City State Zip: Wheat Ridge, CO 8003:	City State	Street Address
Project Contact E-mail: parna.eskandaripayandeh@sgs.com	Project #	City State Zip
Phone # Fax #: 303-425-6021	Client Purchase Order #	Attention:
Sampler(s) Name(s) Phone: MD	Project Manager	

Requested Analysis (see TEST CODE sheet): XCRA7199

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

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MECH	ENCORE	XCRA7199	LAB USE ONLY
1	FL01-S@6'		6/6/25	10:00:00 AM	MD	SO										X	
2	BKG01@2'		6/6/25	10:33:00 AM	MD	SO										X	
3	BKG01@3'		6/6/25	10:36:00 AM	MD	SO										X	
4	BKG01@4'		6/6/25	10:39:00 AM	MD	SO										X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [x] other Due 6/12/2025

Emergency & Rush T/A data available via Lablink Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [x] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions: Assessment/Verification

http://www.sgs.com/en/terms-and-conditions

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6-9-25 8:00	1 FY	2 FY	6/10/25	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable / Therm. ID: / On Ice / Cooler Temp.

2.0 10 (IWB)

10.1 10

DA72889: Chain of Custody
Page 1 of 2
SGS Dayton, NJ

SGS Sample Receipt Summary

Job Number: DA72889 **Client:** SGS NORTH AMERICA INC. **Project:** TASMCOA: GOETZEL 32C-30-M FLOWLIN

Date / Time Received: 6/10/2025 9:50:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.0); Cooler 2: (1.0);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

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

Comments

SM089-03
Rev. Date 12/7/17

10.1 10

DA72889: 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: DA72889
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: TASMCOA: Goetzel 32C-30-M Flowline, UWRWE-A5118-AES

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP61770/GN69616	0.40	0.0	mg/kg	40	41.9	104.8(a)	80-120%
Chromium, Hexavalent	GP61770/GN69616			mg/kg	882	847	96.1(b)	80-120%

Associated Samples:
Batch GP61770: DA72889-1, DA72889-2, DA72889-3, DA72889-4
(*) Outside of QC limits
(a) Good recovery on soluble XCR matrix spike. Good recovery (99.4%) on the post-spike.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72889
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: TASMCOA: Goetzel 32C-30-M Flowline, UWRWE-A5118-AES

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP61770/GN69616	DA72883-12	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP61770: DA72889-1, DA72889-2, DA72889-3, DA72889-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA72889
Account: ALMS - SGS Wheat Ridge, CO
Project: CHEVRCOG: TASMCOA: Goetzel 32C-30-M Flowline, UWRWE-A5118-AES

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP61770/GN69616	DA72883-12	mg/kg	0.0	43.7	47.2	108.1(a)	75-125%
Chromium, Hexavalent	GP61770/GN69616	DA72883-12	mg/kg	0.0	864	812	94.0(b)	75-125%

Associated Samples:
Batch GP61770: DA72889-1, DA72889-2, DA72889-3, DA72889-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Good recovery on soluble XCR matrix spike. Good recovery (99.4%) on the post-spike.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.