



**Entrada Consulting Group**

**January 02, 2025**

**Chelsea Veryser**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Chevron - Frico 21-14**

**Project Number - [none]**

Attached are your analytical results for Chevron - Frico 21-14 received by Origins Laboratory November 22, 2024. This project is associated with Origins project number E4K0695-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	E4K0695-01	Soil	November 21, 2024 14:00	11/22/2024 17:45
WH01-E@4	E4K0695-03	Soil	November 21, 2024 14:10	11/22/2024 17:45

Origins Laboratory



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

Client: Entrada  
 Address: \_\_\_\_\_  
 Project Manager: Chelsea Verysen  
 Project Name: Frico 21-14  
 Project Number: \_\_\_\_\_  
 Key: \_\_\_\_\_

Telephone Number: 303-314-8103  
 Collected By: Jim Larve  
 Invoice/Billing Info: Bill to Chevron (Dusty Smith)  
 Email Address: Entrada Distribution c/o: Ruffini (127) Denver, CO  
 WVI=Waste Water  
 L=Liquid


S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments	
							Temp	Time		
1	W101-06	11/21/24	1400	2	S	WVP	X	76.6	91.5	SAME MY BEX/FR
2	W101-N04		1405							Hold
3	W101-E04		1410							SAME MY BEX/FR
4	W101-N04		1415							Hold
5	W101-S04		1420							Hold
6										
7										
8										
9										
10										

Requisitioned By: [Signature] Date: 11/22/24 Time: 0700 Received By: WK Date: 11/22/24 Time: 16:10  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72

Requisitioned By: WK Date: 11/22/24 Time: 1745 Received By: [Signature] Date: 11/22/24 Time: 915  
 Turnaround Time:  Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 42 Received On Ice?  Yes  No

Origins Laboratory  


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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: 64120695

Client: Fremont Entrada

Client Project ID: for uyo Frico 21-14

Checklist Completed by: SHD/WS

Shipped Via: HS  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/22/14

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / \_\_\_\_\_ °c \_\_\_\_\_ / \_\_\_\_\_ °c \_\_\_\_\_ / \_\_\_\_\_ °c (Describe)

Thermometer ID: 4007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)?</sup>	/			
Was adequate sample volume provided <sup>(1)?</sup>	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) SHD Date/Time Reviewed 11/22/14

Origins Laboratory



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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**WH01@6**

**11/21/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0695-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0983	mg/L	1	B4K2609	11/26/2024	12/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	29.5	25.0	mg/kg	1	B4K2238	11/22/2024	11/23/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	85.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4K2236	11/22/2024	11/22/2024	Ua
1,3,5-Trimethylbenzene	<b>0.00228</b>	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	<b>1.58</b>	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	149 %	70-130			"	"	"	S-GC
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	

Origins Laboratory



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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**WH01@6**

**11/21/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0695-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			B4K22 36	11/22/2024	11/22/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.27		0.499	meq/L	10	[CALC]	11/26/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.478		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00120	0.00364	mg/kg dry	1	2714859	12/04/2024	12/04/2024	U
2-Methylnaphthalene	ND	0.00120	0.00364	"	"	"	"	"	U
Acenaphthene	ND	0.00120	0.00364	"	"	"	"	"	U
Anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00120	0.00364	"	"	"	"	"	U
Chrysene	ND	0.00120	0.00364	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Fluoranthene	ND	0.00120	0.00364	"	"	"	"	"	U
Fluorene	ND	0.00120	0.00364	"	"	"	"	"	U

Origins Laboratory



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330 Grand Ave. Unit C  
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

WH01@6

11/21/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**

E4K0695-01 (Soil)

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00120	0.00364	mg/kg dry	1	2714859	12/04/2024	12/04/2024	U
Naphthalene	ND	0.00120	0.00364	"	"	"	"	"	U
Pyrene	0.00546	0.00120	0.00364	"	"	"	"	"	

Surrogate: 5-alpha-Androstane 92 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.13 pH Units 1 B4K2629 11/26/2024 12/03/2024

**SAR by 20B Saturated Paste**

SAR 0.543 0.0100 SAR 1 B4K2622 11/26/2024 12/03/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.321 0.00500 mmhos/cm 1 B4K2629 11/26/2024 12/03/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.15	0.263	mg/kg	10	B4K2239	11/25/2024	12/04/2024
Barium	52.3	9.08	"	"	"	"	"
Cadmium	ND	0.0908	"	"	"	"	"
Copper	ND	9.08	"	"	"	"	"

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

WH01@6

11/21/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E4K0695-01 (Soil)

**Table 915 metals by EPA 6020B**

Lead	7.35		0.908	mg/kg	10	B4K2239	11/25/2024	12/04/2024	
Nickel	4.50		0.908	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0908	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.159	0.398	mg/kg dry	1	2722476	12/19/2024	12/24/2024	U
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Origins Laboratory



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330 Grand Ave. Unit C  
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

WH01-E@4

11/21/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E4K0695-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.154		0.0981	mg/L	1	B4K2609	11/26/2024	12/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	368		25.0	mg/kg	1	B4K2238	11/22/2024	11/23/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K2236	11/22/2024	11/22/2024	Ua
1,3,5-Trimethylbenzene	0.0414		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	101		5.00	"	25	"	"	11/24/2024	

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	

Origins Laboratory



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

**WH01-E@4**

**11/21/2024 2:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0695-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	100 %		70-130			B4K22 36	11/22/2024	11/24/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.28		0.499	meq/L	10	[CALC]	11/26/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.00		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	0.0110	0.00121	0.00367	mg/kg dry	1	2714859	12/04/2024	12/04/2024	
2-Methylnaphthalene	ND	0.00121	0.00367	"	"	"	"	"	U
Acenaphthene	0.00734	0.00121	0.00367	"	"	"	"	"	
Anthracene	0.00367	0.00121	0.00367	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00121	0.00367	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00121	0.00367	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00121	0.00367	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00121	0.00367	"	"	"	"	"	U
Chrysene	ND	0.00121	0.00367	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00121	0.00367	"	"	"	"	"	U
Fluoranthene	ND	0.00121	0.00367	"	"	"	"	"	U
Fluorene	0.0154	0.00121	0.00367	"	"	"	"	"	

Origins Laboratory



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

WH01-E@4

11/21/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**

E4K0695-03 (Soil)

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00121	0.00367	mg/kg dry	1	2714859	12/04/2024	12/04/2024	U
Naphthalene	0.00514	0.00121	0.00367	"	"	"	"	"	
Pyrene	0.0367	0.00121	0.00367	"	"	"	"	"	

Surrogate: 5-alpha-Androstane 86 % 22-135 " " "

**pH in Soil by 9045D**

pH 7.63 pH Units 1 B4K2629 11/26/2024 12/03/2024

**SAR by 20B Saturated Paste**

SAR 0.864 0.0100 SAR 1 B4K2622 11/26/2024 12/03/2024

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.449 0.00500 mmhos/cm 1 B4K2629 11/26/2024 12/03/2024

**Table 915 metals by EPA 6020B**

Arsenic	2.48	0.252	mg/kg	10	B4K2239	11/25/2024	12/04/2024
Barium	69.2	8.70	"	"	"	"	"
Cadmium	0.153	0.0870	"	"	"	"	"
Copper	ND	8.70	"	"	"	"	"

Origins Laboratory



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

WH01-E@4

11/21/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E4K0695-03 (Soil)

**Table 915 metals by EPA 6020B**

Lead	17.1		0.870	mg/kg	10	B4K2239	11/25/2024	12/04/2024	
Nickel	5.90		0.870	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	ND		32.2	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.169	0.423	mg/kg dry	1	2722476	12/19/2024	12/24/2024	U
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Origins Laboratory



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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2236 - EPA 5030 (soil)**

**Blank (B4K2236-BLK1)**

Prepared: 11/22/2024 Analyzed: 11/22/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	139		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.7		70-130			

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 330 Grand Ave. Unit C  
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K2236 - EPA 5030 (soil)</b>										
<b>LCS (B4K2236-BS1)</b>										
						Prepared: 11/22/2024 Analyzed: 11/22/2024				
1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100		99.9	70-130			
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100		99.9	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.0956	0.00200	"	0.100		95.6	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.0922	0.00200	"	0.100		92.2	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.19		"	0.125		150	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

Origins Laboratory



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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2236 - EPA 5030 (soil)

Matrix Spike (B4K2236-MS1)	Source: E4K0703-01		Prepared: 11/22/2024 Analyzed: 11/22/2024							
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.000480	105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	0.000580	106	70-130			
Benzene	0.115	0.00200	"	0.100	ND	115	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.105	0.00380	"	0.100	0.000900	104	70-130			
Toluene	0.116	0.00200	"	0.100	0.000900	115	70-130			
o-Xylene	0.101	0.00200	"	0.100	0.00104	100	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	0.00258	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		136	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Origins Laboratory

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2236 - EPA 5030 (soil)

Matrix Spike Dup (B4K2236-MSD1)	Source: E4K0703-01			Prepared: 11/22/2024 Analyzed: 11/22/2024						
1,2,4-Trimethylbenzene	0.0960	0.00200	mg/kg	0.100	0.000480	95.5	70-130	9.71	20	
1,3,5-Trimethylbenzene	0.0948	0.00200	"	0.100	0.000580	94.3	70-130	11.7	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	9.63	20	
Ethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	12.2	20	
Naphthalene	0.102	0.00380	"	0.100	0.000900	101	70-130	2.47	20	
Toluene	0.106	0.00200	"	0.100	0.000900	105	70-130	8.76	20	
o-Xylene	0.0931	0.00200	"	0.100	0.00104	92.0	70-130	8.50	20	
m,p-Xylene	0.204	0.00400	"	0.200	0.00258	101	70-130	1.81	20	
Surrogate: 1,2-Dichloroethane-d4	0.18		"	0.125		141	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K2238 - EPA 3550B</b>										
<b>Blank (B4K2238-BLK1)</b>										
					Prepared: 11/22/2024 Analyzed: 11/22/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K2238 - EPA 3550B</b>										
<b>LCS (B4K2238-BS1)</b>										
					Prepared: 11/22/2024 Analyzed: 11/22/2024					
Diesel (C10-C28)	770	50.0	mg/kg	1000		77.0	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000		81.1	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.7	50-150			

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2238 - EPA 3550B**

<b>Matrix Spike (B4K2238-MS1)</b>	<b>Source: E4K0703-01</b>				<b>Prepared: 11/22/2024 Analyzed: 11/24/2024</b>					
Diesel (C10-C28)	1430	50.0	mg/kg	1000	ND	143	70-130			QM-07
Residual Range Organics (C28-C40)	1460	200	"	1000	ND	146	70-130			QM-07
Surrogate: o-Terphenyl	80		"	49.8		161	50-150			QM-07

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 330 Grand Ave. Unit C  
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2238 - EPA 3550B

Matrix Spike Dup (B4K2238-MSD1)	Source: E4K0703-01		Prepared: 11/22/2024 Analyzed: 11/24/2024							
Diesel (C10-C28)	1420	50.0	mg/kg	1000	ND	142	70-130	0.368	35	QM-07
Residual Range Organics (C28-C40)	1420	200	"	1000	ND	142	70-130	3.29	35	QM-07
Surrogate: o-Terphenyl	76		"	49.8		154	50-150			QM-07

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2239 - EPA 3050B**

**Blank (B4K2239-BLK1)**

Prepared: 11/22/2024 Analyzed: 12/04/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4K2239-BS1)**

Prepared: 11/22/2024 Analyzed: 12/04/2024

Arsenic	5.36	0.290	mg/kg	5.00		107	80-120			
Barium	549	10.0	"	500		110	80-120			
Cadmium	5.41	0.100	"	5.00		108	80-120			
Copper	53.0	10.0	"	50.0		106	80-120			
Lead	5.37	1.00	"	5.00		107	80-120			
Nickel	5.66	1.00	"	5.00		113	80-120			
Selenium	5.93	0.260	"	5.00		119	80-120			
Silver	5.71	0.100	"	5.00		114	80-120			
Zinc	53.1	37.0	"	50.0		106	80-120			

**Matrix Spike (B4K2239-MS1)**

Source: E4K0678-02

Prepared: 11/22/2024 Analyzed: 12/04/2024

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2239 - EPA 3050B

**Matrix Spike (B4K2239-MS1)**

Source: E4K0678-02

Prepared: 11/22/2024 Analyzed: 12/04/2024

Arsenic	8.99	0.259	mg/kg	4.46	5.55	77.4	75-125			
Barium	855	8.92	"	446	300	125	75-125			
Cadmium	4.84	0.0892	"	4.46	0.194	104	75-125			
Copper	56.0	8.92	"	44.6	11.8	99.1	75-125			
Lead	12.6	0.892	"	4.46	9.38	72.8	75-125			QM-07
Nickel	15.4	0.892	"	4.46	13.1	51.6	75-125			QM-07
Selenium	4.71	0.232	"	4.46	0.199	101	75-125			
Silver	4.84	0.0892	"	4.46	0.0329	108	75-125			
Zinc	81.1	33.0	"	44.6	43.2	85.1	75-125			

**Matrix Spike Dup (B4K2239-MSD1)**

Source: E4K0678-02

Prepared: 11/22/2024 Analyzed: 12/04/2024

Arsenic	9.73	0.272	mg/kg	4.70	5.55	89.0	75-125	7.83	20	
Barium	834	9.39	"	470	300	114	75-125	2.50	20	
Cadmium	5.42	0.0939	"	4.70	0.194	111	75-125	11.2	20	
Copper	61.7	9.39	"	47.0	11.8	106	75-125	9.81	20	
Lead	14.4	0.939	"	4.70	9.38	107	75-125	13.3	20	
Nickel	17.0	0.939	"	4.70	13.1	83.3	75-125	9.99	20	
Selenium	5.32	0.244	"	4.70	0.199	109	75-125	12.1	20	
Silver	5.45	0.0939	"	4.70	0.0329	115	75-125	11.9	20	
Zinc	88.5	34.8	"	47.0	43.2	96.5	75-125	8.72	20	

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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2609 - DTPA Sorbitol Preparation**

**Blank (B4K2609-BLK1)**

Prepared: 11/26/2024 Analyzed: 12/02/2024

Boron ND 0.100 mg/L

**Duplicate (B4K2609-DUP1)**

**Source: E4K0695-01**

Prepared: 11/26/2024 Analyzed: 12/02/2024

Boron 0.0915 0.0981 mg/L 0.0912 0.234 50

**Batch B4K2622 - Saturated Paste Metals**

**Blank (B4K2622-BLK1)**

Prepared: 11/26/2024 Analyzed: 12/03/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B4K2622-DUP1)**

**Source: E4K0695-01**

Prepared: 11/26/2024 Analyzed: 12/03/2024

SAR ND 0.0100 SAR 0.543 200

Calcium PPM 28.0 10.0 mg/L 25.5 9.28 50

Magnesium PPM 3.72 10.0 " 3.40 8.99 50

Sodium PPM 10.3 10.0 " 11.0 6.68 50

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Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

**Saturated Paste - Quality Control  
Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2629 - Saturated Paste pH/EC**

**Blank (B4K2629-BLK1)**

Prepared: 11/26/2024 Analyzed: 12/03/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K2629-DUP1)**

**Source: E4K0695-01**

Prepared: 11/26/2024 Analyzed: 12/03/2024

pH	8.04		pH Units		8.13			1.11	25	
Specific Conductance (EC)	0.357	0.00500	mmhos/cm		0.321			10.5	25	

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2714859 - SW846 3541

**BLANK (1205937782-BLK)**

Prepared: 12/04/2024 Analyzed: 12/04/2024

Naphthalene	ND	0.00328	mg/kg				-			U
Chrysene	ND	0.00328	"				-			U
Pyrene	ND	0.00328	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00328	"				-			U
Fluorene	ND	0.00328	"				-			U
Fluoranthene	ND	0.00328	"				-			U
Dibenzo(a,h)anthracene	ND	0.00328	"				-			U
Benzo(k)fluoranthene	ND	0.00328	"				-			U
2-Methylnaphthalene	ND	0.00328	"				-			U
1-Methylnaphthalene	ND	0.00328	"				-			U
Acenaphthene	ND	0.00328	"				-			U
Anthracene	ND	0.00328	"				-			U
Benzo(a)anthracene	ND	0.00328	"				-			U
Benzo(a)pyrene	ND	0.00328	"				-			U
Benzo(b)fluoranthene	ND	0.00328	"				-			U

Surrogate: 5-alpha-Androstane

0.160

"

0.164

97

22-135

**LCS (1205937783-BKS)**

Prepared: 12/04/2024 Analyzed: 12/04/2024

Benzo(b)fluoranthene	0.254	0.00332	mg/kg	0.332		76	39-123			
1-Methylnaphthalene	0.245	0.00332	"	0.332		74	39-109			
Naphthalene	0.246	0.00332	"	0.332		74	38-109			
Indeno(1,2,3-cd)pyrene	0.259	0.00332	"	0.332		78	38-133			
Fluorene	0.241	0.00332	"	0.332		73	37-115			
Fluoranthene	0.254	0.00332	"	0.332		76	39-119			
Dibenzo(a,h)anthracene	0.255	0.00332	"	0.332		77	38-132			
Pyrene	0.248	0.00332	"	0.332		75	38-117			
Benzo(a)pyrene	0.262	0.00332	"	0.332		79	39-127			

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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2714859 - SW846 3541**

**LCS (1205937783-BKS)**

Prepared: 12/04/2024 Analyzed: 12/04/2024

Benzo(a)anthracene	0.260	0.00332	mg/kg	0.332		78	42-120			
Anthracene	0.250	0.00332	"	0.332		75	41-117			
Acenaphthene	0.244	0.00332	"	0.332		74	41-112			
2-Methylnaphthalene	0.256	0.00332	"	0.332		77	39-110			
Benzo(k)fluoranthene	0.237	0.00332	"	0.332		71	40-122			
Chrysene	0.258	0.00332	"	0.332		78	42-117			

Surrogate: 5-alpha-Androstane      0.154      "      0.166      93      22-135

**LCSD (1205937784-BKSD)**

Prepared: 12/04/2024 Analyzed: 12/04/2024

Pyrene	0.196	0.00332	mg/kg	0.332		59	38-117	23	30	
Chrysene	0.204	0.00332	"	0.332		62	42-117	23	30	
Benzo(a)pyrene	0.210	0.00332	"	0.332		63	39-127	22	30	
Dibenzo(a,h)anthracene	0.204	0.00332	"	0.332		61	38-132	22	30	
Fluoranthene	0.202	0.00332	"	0.332		61	39-119	22	30	
Fluorene	0.194	0.00332	"	0.332		58	37-115	22	30	
Naphthalene	0.195	0.00332	"	0.332		59	38-109	23	30	
Indeno(1,2,3-cd)pyrene	0.205	0.00332	"	0.332		62	38-133	23	30	
Benzo(a)anthracene	0.203	0.00332	"	0.332		61	42-120	24	30	
Anthracene	0.198	0.00332	"	0.332		60	41-117	23	30	
Acenaphthene	0.193	0.00332	"	0.332		58	41-112	23	30	
2-Methylnaphthalene	0.204	0.00332	"	0.332		61	39-110	23	30	
1-Methylnaphthalene	0.194	0.00332	"	0.332		59	39-109	23	30	
Benzo(k)fluoranthene	0.189	0.00332	"	0.332		57	40-122	22	30	
Benzo(b)fluoranthene	0.200	0.00332	"	0.332		60	39-123	24	30	

Surrogate: 5-alpha-Androstane      0.121      "      0.166      73      22-135

**MS (1205937785 S)**

**Source: 697609001**

Prepared: 12/04/2024 Analyzed: 12/04/2024

Origins Laboratory



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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2714859 - SW846 3541**

MS (1205937785 S)	Source: 697609001			Prepared: 12/04/2024 Analyzed: 12/04/2024						
Benzo(b)fluoranthene	0.290	0.00412	mg/kg dry	0.412	<0.00136	70	14-136			
Naphthalene	0.276	0.00412	"	0.412	<0.00136	67	16-126			
Indeno(1,2,3-cd)pyrene	0.297	0.00412	"	0.412	<0.00136	72	13-134			
Fluorene	0.278	0.00412	"	0.412	<0.00136	68	16-134			
Fluoranthene	0.294	0.00412	"	0.412	<0.00136	71	14-136			
Dibenzo(a,h)anthracene	0.297	0.00412	"	0.412	<0.00136	72	11-134			
Benzo(k)fluoranthene	0.273	0.00412	"	0.412	<0.00136	66	18-138			
2-Methylnaphthalene	0.295	0.00412	"	0.412	<0.00136	71	15-132			
Chrysene	0.299	0.00412	"	0.412	<0.00136	72	19-129			
1-Methylnaphthalene	0.285	0.00412	"	0.412	<0.00136	69	15-129			
Pyrene	0.290	0.00412	"	0.412	<0.00136	70	12-139			
Acenaphthene	0.278	0.00412	"	0.412	<0.00136	67	17-129			
Anthracene	0.289	0.00412	"	0.412	<0.00136	70	18-136			
Benzo(a)anthracene	0.299	0.00412	"	0.412	<0.00136	73	20-132			
Benzo(a)pyrene	0.304	0.00412	"	0.412	<0.00136	74	16-133			

Surrogate: 5-alpha-Androstane      0.161      "      0.206      0.177      78      22-135

MSD (1205937786 SD)	Source: 697609001			Prepared: 12/04/2024 Analyzed: 12/04/2024						
Chrysene	0.260	0.00411	mg/kg dry	0.411	<0.00136	63	19-129	14	30	
Naphthalene	0.235	0.00411	"	0.411	<0.00136	57	16-126	16	30	
Indeno(1,2,3-cd)pyrene	0.262	0.00411	"	0.411	<0.00136	64	13-134	12	30	
Fluorene	0.251	0.00411	"	0.411	<0.00136	61	16-134	11	30	
Fluoranthene	0.261	0.00411	"	0.411	<0.00136	64	14-136	12	30	
Dibenzo(a,h)anthracene	0.261	0.00411	"	0.411	<0.00136	64	11-134	13	30	
Pyrene	0.255	0.00411	"	0.411	<0.00136	62	12-139	13	30	
1-Methylnaphthalene	0.241	0.00411	"	0.411	<0.00136	59	15-129	17	30	
Benzo(b)fluoranthene	0.259	0.00411	"	0.411	<0.00136	63	14-136	11	30	

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Entrada Consulting Group  
 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2714859 - SW846 3541

MSD (1205937786 SD)	Source: 697609001			Prepared: 12/04/2024 Analyzed: 12/04/2024						
Benzo(a)pyrene	0.274	0.00411	mg/kg dry	0.411	<0.00136	67	16-133	11	30	
Benzo(a)anthracene	0.268	0.00411	"	0.411	<0.00136	65	20-132	11	30	
Anthracene	0.258	0.00411	"	0.411	<0.00136	63	18-136	12	30	
Acenaphthene	0.249	0.00411	"	0.411	<0.00136	60	17-129	11	30	
Benzo(k)fluoranthene	0.245	0.00411	"	0.411	<0.00136	60	18-138	11	30	
2-Methylnaphthalene	0.252	0.00411	"	0.411	<0.00136	61	15-132	16	30	
Surrogate: 5-alpha-Androstane	0.137		"	0.205	0.177	67	22-135			

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Frico 21-14

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2722476 - SW846 3060A</b>										
<b>BLANK (1205953234-BLK)</b>					Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	ND	0.346	mg/kg				-			U
<b>LCS (1205953235-BKS)</b>					Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	4.00	0.392	mg/kg	3.92		102	80-120			
<b>DUP (1205953236 D)</b>					Source: E4K0695-01 Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	ND	0.371	mg/kg dry		<0.148		0-50	N/A	50	U
<b>MS (1205953237 S)</b>					Source: E4K0695-01 Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	2.96	0.439	mg/kg dry	4.39	<0.176	66.1	75-125			
<b>DUP (1205953238 D)</b>					Source: E4K0695-03 Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	ND	0.362	mg/kg dry		<0.145		0-50	N/A	50	U
<b>MS (1205953239 S)</b>					Source: E4K0695-03 Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	2.12	0.428	mg/kg dry	4.28	<0.171	48.1	75-125			
<b>ILCS (1205953240-ILCS)</b>					Prepared: 12/19/2024 Analyzed: 12/24/2024					
Hexavalent Chromium	7.08	0.332	mg/kg	7.44		95.1	80-120			

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330 Grand Ave. Unit C  
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Frico 21-14

## Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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