



**Entrada Consulting Group**

**Chelsea Veryser**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**October 17, 2024**

**Project Name - Chevron - UPRC 35-06F**

**Project Number - [none]**

Attached are your analytical results for Chevron - UPRC 35-06F received by Origins Laboratory September 17, 2024. This project is associated with Origins project number E409518-01.

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



**1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645**



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	E409518-01	Soil	September 17, 2024 14:00	09/17/2024 17:25
FLR01@4	E409518-02	Soil	September 17, 2024 14:00	09/17/2024 17:25

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

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6409518

ORIGINS WORK ORDER #

ORIGINS

LABORATORY INC

Client:

Entrada

Address:

Project Manager:

Chelsea Veryser

Key:

W= Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

L=Liquid

Telephone Number:

323 319-9703

Email Address:

Entrada.Distribution.CCRB@Chevron.com

Collected By:

Jan Lohner

Invoice/Billing Info:

Chevron (Dusty Smith)

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							Table 915										
1	WHL06	9/17	1400	2	S	UNP	X										
2	FLR0104		1405				X										
3	WHL0104		1410														HOLD
4	WHL0104		1415														HOLD
5	WHL0104		1420														HOLD
6																	
7																	
8																	
9																	
10																	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time
	9/17/24	1530	VK	09/17/24	1605	<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 Hr
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	<input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr
VK	09/17/24	1725	SH	9/17/24	1725	<input checked="" type="checkbox"/> Standard

For Lab Sample Receiving Only:

Temp Received: 4.7 Received On Ice? ☒ Yes ☐ No

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory

*J. Bynon*

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: E4 09518

Client: Entrada

Client Project ID: UPRC

Checklist Completed by: ADK

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

Date/time completed: 9/18/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 4.7 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1005

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? If yes, contact client and note in narrative.			/	
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) ADP

Date/Time Reviewed 9/20/24

Origins Laboratory

*J. Bynon*

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

WH01@6

9/17/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409518-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.281	0.0989	mg/L	1	B4I1919	09/19/2024	09/20/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1935	09/19/2024	09/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.8 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1968	09/19/2024	09/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"

Origins Laboratory

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330 Grand Ave. Unit C  
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

WH01@6

9/17/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E409518-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 111 % 70-130 B4196 8 09/19/2024 09/22/2024

### Metals by Saturated Paste by EPA 6010

Calcium	0.723	0.499	meq/L	10	[CALC]	09/19/2024	09/20/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.85	0.435	"	"	"	"	"

### PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.022	0.002	mg/kg	1	B41934	09/19/2024	10/01/2024	
2-Methylnaphthalene	0.024	0.002	"	"	"	"	"	
Acenaphthene	0.028	0.020	"	"	"	"	"	
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	0.106	0.020	"	"	"	"	"	

Origins Laboratory



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Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

WH01@6

9/17/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E409518-01 (Soil)

### PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4I1934	09/19/2024	10/01/2024	U
Naphthalene	0.006	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.73	pH Units	1	B4I1925	09/19/2024	09/23/2024
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### SAR by 20B Saturated Paste

SAR	5.10	0.0100	SAR	1	B4I1907	09/19/2024	09/20/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.792	0.00500	mmhos/cm	1	B4I1925	09/19/2024	09/23/2024
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### Table 915 metals by EPA 6020B

Arsenic	8.20	0.263	mg/kg	10	B4I1855	09/18/2024	09/21/2024
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

WH01@6

9/17/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409518-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	164	9.06	mg/kg	10	B411855	09/18/2024	09/21/2024
Cadmium	0.294	0.0906	"	"	"	"	"
Copper	19.2	9.06	"	"	"	"	"
Lead	37.5	0.906	"	"	"	"	"
Nickel	17.9	0.906	"	"	"	"	"
Selenium	0.716	0.236	"	"	"	"	"
Silver	ND	0.0906	"	"	"	"	"
Zinc	76.9	33.5	"	"	"	"	"

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L777679	09/17/2024	10/11/2024
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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

FLR01@4

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E409518-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.173	0.101	mg/L	1	B4I1919	09/19/2024	09/20/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1935	09/19/2024	09/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.5 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1968	09/19/2024	09/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

FLR01@4

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E409518-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 110 % 70-130 B41196 8 09/19/2024 09/22/2024

### Metals by Saturated Paste by EPA 6010

Calcium	1.40	0.499	meq/L	10	[CALC]	09/19/2024	09/20/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.37	0.435	"	"	"	"	"

### PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411934	09/19/2024	10/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

FLR01@4

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E409518-02 (Soil)

### PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4I1934	09/19/2024	10/01/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

### pH in Soil by 9045D

pH	6.34	pH Units	1	B4I1925	09/19/2024	09/23/2024
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### SAR by 20B Saturated Paste

SAR	3.25	0.0100	SAR	1	B4I1907	09/19/2024	09/20/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.760	0.00500	mmhos/cm	1	B4I1925	09/19/2024	09/23/2024
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### Table 915 metals by EPA 6020B

Arsenic	1.02	0.256	mg/kg	10	B4I1855	09/18/2024	09/21/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

FLR01@4

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**

**E409518-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	38.9		8.84	mg/kg	10	B411855	09/18/2024	09/21/2024
Cadmium	ND		0.0884	"	"	"	"	"
Copper	ND		8.84	"	"	"	"	"
Lead	7.53		0.884	"	"	"	"	"
Nickel	3.62		0.884	"	"	"	"	"
Selenium	ND		0.230	"	"	"	"	"
Silver	ND		0.0884	"	"	"	"	"
Zinc	ND		32.7	"	"	"	"	"

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L777679	09/17/2024	10/11/2024
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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 - UPRC 35-06F

**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 B4I1935 - EPA 3550B</b>										
<b>Blank (B4I1935-BLK1)</b>					Prepared: 09/19/2024 Analyzed: 09/20/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.7	50-150			

Origins Laboratory

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

**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 B4I1935 - EPA 3550B**

**LCS (B4I1935-BS1)**

Prepared: 09/19/2024 Analyzed: 09/20/2024

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager





Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

**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 B4I1935 - EPA 3550B**

Matrix Spike (B4I1935-MS1)		Source: E409503-05			Prepared: 09/19/2024 Analyzed: 09/20/2024					
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130			
Residual Range Organics (C28-C40)	877	200	"	1000	ND	87.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.0	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Entrada Consulting Group

330 Grand Ave. Unit C

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Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

**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 B4I1935 - EPA 3550B**

Matrix Spike Dup (B4I1935-MSD1)		Source: E409503-05			Prepared: 09/19/2024 Analyzed: 09/20/2024					
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130	4.69	35	
Residual Range Organics (C28-C40)	900	200	"	1000	ND	90.0	70-130	2.59	35	
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

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 - UPRC 35-06F

**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 B4I1968 - EPA 5030 (soil)</b>										
<b>Blank (B4I1968-BLK1)</b>					Prepared: 09/19/2024 Analyzed: 09/21/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

## 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 B4I1968 - EPA 5030 (soil)</b>										
<b>LCS (B4I1968-BS1)</b>					Prepared: 09/19/2024 Analyzed: 09/21/2024					
1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100		92.7	70-130			
Benzene	0.0795	0.00200	"	0.100		79.5	70-130			
Ethylbenzene	0.0907	0.00200	"	0.100		90.7	70-130			
Naphthalene	0.0989	0.00380	"	0.100		98.9	70-130			
Toluene	0.0832	0.00200	"	0.100		83.2	70-130			
o-Xylene	0.0912	0.00200	"	0.100		91.2	70-130			
m,p-Xylene	0.179	0.00400	"	0.200		89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

## 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
Batch B4I1968 - EPA 5030 (soil)										
Matrix Spike (B4I1968-MS1)		Source: E409503-01			Prepared: 09/19/2024 Analyzed: 09/21/2024					
1,2,4-Trimethylbenzene	0.0644	0.00200	mg/kg	0.100	ND	64.4	70-130			QM-07
1,3,5-Trimethylbenzene	0.0678	0.00200	"	0.100	ND	67.8	70-130			QM-07
Benzene	0.0573	0.00200	"	0.100	ND	57.3	70-130			QM-07
Ethylbenzene	0.0755	0.00200	"	0.100	ND	75.5	70-130			
Naphthalene	0.0385	0.00380	"	0.100	ND	38.5	70-130			QM-07
Toluene	0.0670	0.00200	"	0.100	ND	67.0	70-130			QM-07
o-Xylene	0.0727	0.00200	"	0.100	ND	72.7	70-130			
m,p-Xylene	0.147	0.00400	"	0.200	ND	73.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

## 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
Batch B4I1968 - EPA 5030 (soil)										
Matrix Spike Dup (B4I1968-MSD1)		Source: E409503-01			Prepared: 09/19/2024 Analyzed: 09/21/2024					
1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.100	ND	51.3	70-130	22.7	20	QM-07
1,3,5-Trimethylbenzene	0.0535	0.00200	"	0.100	ND	53.5	70-130	23.5	20	QM-07
Benzene	0.0511	0.00200	"	0.100	ND	51.1	70-130	11.5	20	QM-07
Ethylbenzene	0.0616	0.00200	"	0.100	ND	61.6	70-130	20.3	20	QM-07
Naphthalene	0.0386	0.00380	"	0.100	ND	38.6	70-130	0.260	20	QM-07
Toluene	0.0574	0.00200	"	0.100	ND	57.4	70-130	15.4	20	QM-07
o-Xylene	0.0599	0.00200	"	0.100	ND	59.9	70-130	19.3	20	QM-07
m,p-Xylene	0.119	0.00400	"	0.200	ND	59.7	70-130	20.7	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

**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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**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 B4I1855 - EPA 3050B**

**Blank (B4I1855-BLK1)**

Prepared: 09/18/2024 Analyzed: 09/21/2024

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 (B4I1855-BS1)**

Prepared: 09/18/2024 Analyzed: 09/21/2024

Arsenic	4.81	0.290	mg/kg	5.00	96.3	80-120
Barium	461	10.0	"	500	92.1	80-120
Cadmium	5.00	0.100	"	5.00	100	80-120
Copper	49.7	10.0	"	50.0	99.4	80-120
Lead	4.59	1.00	"	5.00	91.8	80-120
Nickel	4.89	1.00	"	5.00	97.8	80-120
Selenium	4.67	0.260	"	5.00	93.3	80-120
Silver	5.08	0.100	"	5.00	102	80-120
Zinc	48.4	37.0	"	50.0	96.8	80-120

**Matrix Spike (B4I1855-MS1)**

**Source: E409515-01**

Prepared: 09/18/2024 Analyzed: 09/21/2024

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Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

**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 B4I1855 - EPA 3050B**

Matrix Spike (B4I1855-MS1)		Source: E409515-01			Prepared: 09/18/2024 Analyzed: 09/21/2024					
Arsenic	6.98	0.280	mg/kg	4.83	2.24	98.4	75-125			
Barium	500	9.65	"	483	46.7	94.0	75-125			
Cadmium	4.66	0.0965	"	4.83	0.0830	94.9	75-125			
Copper	52.5	9.65	"	48.3	4.73	98.9	75-125			
Lead	9.70	0.965	"	4.83	4.27	112	75-125			
Nickel	11.5	0.965	"	4.83	6.18	111	75-125			
Selenium	4.53	0.251	"	4.83	0.0627	92.5	75-125			
Silver	4.75	0.0965	"	4.83	0.0168	98.1	75-125			
Zinc	68.9	35.7	"	48.3	21.4	98.5	75-125			
Matrix Spike Dup (B4I1855-MSD1)		Source: E409515-01			Prepared: 09/18/2024 Analyzed: 09/21/2024					
Arsenic	6.16	0.249	mg/kg	4.29	2.24	91.4	75-125	12.5	20	
Barium	436	8.59	"	429	46.7	90.6	75-125	13.8	20	
Cadmium	4.13	0.0859	"	4.29	0.0830	94.2	75-125	12.2	20	
Copper	44.8	8.59	"	42.9	4.73	93.4	75-125	15.7	20	
Lead	8.63	0.859	"	4.29	4.27	101	75-125	11.7	20	
Nickel	10.9	0.859	"	4.29	6.18	110	75-125	5.51	20	
Selenium	3.96	0.223	"	4.29	0.0627	90.8	75-125	13.4	20	
Silver	4.26	0.0859	"	4.29	0.0168	98.8	75-125	11.0	20	
Zinc	62.2	31.8	"	42.9	21.4	95.0	75-125	10.3	20	

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4I1934 - EPA 3580

#### Blank (B4I1934-BLK1)

Prepared: 09/19/2024 Analyzed: 10/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

#### LCS (B4I1934-BS1)

Prepared: 09/19/2024 Analyzed: 10/01/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.5	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200		91.5	70-130			
Acenaphthene	0.186	0.020	"	0.200		93.0	70-130			
Anthracene	0.182	0.020	"	0.200		91.1	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - UPRC 35-06F

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4I1934 - EPA 3580

#### LCS (B4I1934-BS1)

Prepared: 09/19/2024 Analyzed: 10/01/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.4	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.3	70-130			
Benzo (b) fluoranthene	0.160	0.020	"	0.200		80.2	70-130			
Benzo (g,h,i) perylene	0.171	0.020	"	0.200		85.4	70-130			
Benzo (k) fluoranthene	0.165	0.020	"	0.200		82.6	70-130			
Chrysene	0.182	0.020	"	0.200		90.8	70-130			
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		86.2	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.3	70-130			
Fluorene	0.184	0.020	"	0.200		92.1	70-130			
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200		87.6	70-130			
Naphthalene	0.200	0.002	"	0.200		99.8	70-130			
Phenanthrene	0.170	0.020	"	0.200		84.8	70-130			
Pyrene	0.188	0.020	"	0.200		94.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		110	60-130			

#### Matrix Spike (B4I1934-MS1)

Source: E409510-03

Prepared: 09/19/2024 Analyzed: 10/01/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Acenaphthene	0.215	0.020	"	0.200	ND	108	70-130			
Anthracene	0.215	0.020	"	0.200	ND	108	70-130			
Benzo (a) anthracene	0.229	0.005	"	0.200	0.0005	114	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200	0.0005	90.9	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.1	70-130			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4I1934 - EPA 3580

Matrix Spike (B4I1934-MS1)		Source: E409510-03			Prepared: 09/19/2024 Analyzed: 10/01/2024					
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	0.0008	88.2	70-130			
Chrysene	0.200	0.020	"	0.200	0.001	99.1	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.5	70-130			
Fluoranthene	0.201	0.020	"	0.200	0.003	99.0	70-130			
Fluorene	0.208	0.020	"	0.200	0.001	104	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	100	70-130			
Naphthalene	0.220	0.002	"	0.200	ND	110	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.002	99.4	70-130			
Pyrene	0.218	0.020	"	0.200	0.003	107	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.4	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4I1934-MSD1)		Source: E409510-03			Prepared: 09/19/2024 Analyzed: 10/01/2024					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	2.36	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.1	70-130	3.00	20	
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130	5.29	20	
Anthracene	0.208	0.020	"	0.200	ND	104	70-130	3.19	20	
Benzo (a) anthracene	0.220	0.005	"	0.200	0.0005	110	70-130	3.86	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	6.30	20	
Benzo (b) fluoranthene	0.172	0.020	"	0.200	0.0005	85.6	70-130	6.01	20	
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	ND	90.6	70-130	4.93	20	
Benzo (k) fluoranthene	0.169	0.020	"	0.200	0.0008	83.9	70-130	5.03	20	
Chrysene	0.192	0.020	"	0.200	0.001	95.2	70-130	3.97	20	
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	ND	91.6	70-130	5.13	20	
Fluoranthene	0.195	0.020	"	0.200	0.003	95.7	70-130	3.37	20	

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4I1934 - EPA 3580</b>										
<b>Matrix Spike Dup (B4I1934-MSD1)</b>			<b>Source: E409510-03</b>		Prepared: 09/19/2024 Analyzed: 10/01/2024					
Fluorene	0.200	0.020	mg/kg	0.200	0.001	99.5	70-130	4.04	20	
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.1	70-130	4.11	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	3.78	20	
Phenanthrene	0.193	0.020	"	0.200	0.002	95.1	70-130	4.36	20	
Pyrene	0.207	0.020	"	0.200	0.003	102	70-130	4.89	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

**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 B4I1907 - Saturated Paste Metals**

**Blank (B4I1907-BLK1)**

Prepared: 09/19/2024 Analyzed: 09/20/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

**Duplicate (B4I1907-DUP1)**

**Source: E409510-02**

Prepared: 09/19/2024 Analyzed: 09/20/2024

SAR	ND	0.0100	SAR	4.28		200
Calcium PPM	410	10.0	mg/L	263	43.4	50
Magnesium PPM	157	10.0	"	110	35.6	50
Sodium PPM	358	10.0	"	328	8.77	50

**Batch B4I1919 - DTPA Sorbitol Preparation**

**Blank (B4I1919-BLK1)**

Prepared: 09/19/2024 Analyzed: 09/20/2024

Boron	ND	0.100	mg/L
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**Duplicate (B4I1919-DUP1)**

**Source: E409510-17**

Prepared: 09/19/2024 Analyzed: 09/20/2024

Boron	1.89	0.100	mg/L	2.27	18.2	50
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Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

**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 B4I1925 - Saturated Paste pH/EC**

**Blank (B4I1925-BLK1)**

Prepared: 09/19/2024 Analyzed: 09/21/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4I1925-DUP1)**

**Source: E409510-02**

Prepared: 09/19/2024 Analyzed: 09/21/2024

pH	8.29		pH Units	8.45			1.91	25	
Specific Conductance (EC)	4.29	0.00500	mmhos/cm	3.36			24.3	25	

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - UPRC 35-06F

## Total Metals 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L777679 -</b>										
<b>DUP (L 95191-DUP)</b>	<b>Source: 95191</b>				Prepared: Analyzed: 10/11/2024					
Chromium, Hexavalent	ND	0.502	mg/Kg		<0.502		-	0.3	20	
<b>MS (L 95191-MS)</b>	<b>Source: 95191</b>				Prepared: Analyzed: 10/11/2024					
Chromium, Hexavalent	4.64	2.5	mg/Kg	39.9	< 0.244	12	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 10/11/2024					
Chromium, Hexavalent	6.54	0.5	mg/Kg	8		82	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 10/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - UPRC 35-06F

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### Notes and Definitions

U Sample is Non-Detect.

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

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

A handwritten signature in black ink, appearing to read "J. Bynon".

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Jordan A. Bynon For Jen Pellegrini, Project Manager