



April 22, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Guttersen 42-29

Project Number - [none]

Attached are your analytical results for Chevron - Guttersen 42-29 received by Origins Laboratory, Inc. March 20, 2024. This project is associated with Origins project number Y403566-01.

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, Inc.
303.433.1322
o-squad@oelabinc.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 Veryter

Project Number: [none]

Project: Chevron - Guttersen 42-29

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y403566-01	Soil	March 20, 2024 11:00	03/20/2024 17:03
FLR01@4	Y403566-02	Soil	March 20, 2024 11:05	03/20/2024 17:03

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Gutteresen 42-29

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Bill to Chevron
(Dusty Smith)

page 1 of 1

Y403566

Project Manager: Chelsea Veryter

Project Name: Gutteresen 42-29

Project Number:

Samples Collected By: Tim Kipa

Email Address: Entrada Distribution, CC: RBUEUTZ@chevron.com

Client: Entrada

Address:

Telephone Number: 760 310 5038

1725 Elk Place

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Date	
W401@6	3/20/24	1100	2	X				X					1
FLR01@4		1105											2
W401-S@4		1110											3
W401-E@4		1115											4
W401-W@4		1120											5
													6
													7
													8
													9
													10

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Turnaround Time:

Same Day

24 Hr

48 Hr

72 Hr

Standard

Temp Received- 19.1

Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Gutttersen 42-29

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y40 35 GG

Client: Entrada
Client Project ID: Chevron - Gutttersen 42-

Checklist Completed by: SA/ELK

Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Date/time completed: 3/21/24

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

Cooler Number/Temperature: 1 / 19.1 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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) [Signature]

3/22/24
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

WH01@6

3/20/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403566-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4C2514	03/25/2024	03/26/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	292	25.0	mg/kg	1	B4C2202	03/22/2024	03/26/2024
Residual Range Organics (C28-C40)	492	100	"	"	"	"	"

Surrogate: o-Terphenyl	96.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2159	03/21/2024	03/24/2024	U
1,3,5-Trimethylbenzene	0.0148	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00698	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.18	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Guttersen 42-29

WH01@6

3/20/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403566-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	112 %	70-130	B4C21 59	03/21/2024	03/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]	03/23/2024	03/28/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.18	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4C2724	03/27/2024	04/08/2024
2-Methylnaphthalene	0.006	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	0.032	0.005	"	"	"	"	"
Benzo (a) pyrene	0.036	0.020	"	"	"	"	"
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	0.020	0.020	"	"	"	"	"

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Guttersen 42-29

WH01@6

3/20/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y403566-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4C2724	03/27/2024	04/08/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	77.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	111 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B4C2310	03/23/2024	03/25/2024
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SAR by 20B Saturated Paste

SAR	1.37	0.0100	SAR	1	B4C2305	03/23/2024	03/28/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.438	0.00500	mmhos/cm	1	B4C2310	03/23/2024	04/02/2024
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Table 915 metals by EPA 6020B

Arsenic	0.857	0.254	mg/kg	10	B4C2630	03/26/2024	03/28/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Gutterson 42-29

WH01@6

3/20/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y403566-01 (Soil)

Table 915 metals by EPA 6020B

Barium	22.7	8.75	mg/kg	10	B4C2630	03/26/2024	03/28/2024
Cadmium	ND	0.0875	"	"	"	"	"
Copper	ND	8.75	"	"	"	"	"
Lead	5.14	0.875	"	"	"	"	"
Nickel	2.27	0.875	"	"	"	"	"
Selenium	ND	0.227	"	"	"	"	"
Silver	ND	0.0875	"	"	"	"	"
Zinc	ND	32.4	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L744974	03/20/2024	04/18/2024
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Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

FLR01@4

3/20/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403566-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B4C2514	03/25/2024	03/26/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.1	25.0	mg/kg	1	B4C2202	03/22/2024	03/28/2024
Residual Range Organics (C28-C40)	225	100	"	"	"	"	"

Surrogate: o-Terphenyl	110 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2159	03/21/2024	03/24/2024	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	106 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

FLR01@4

3/20/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403566-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130		B4C21 59	03/21/2024	03/24/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.832	0.499	meq/L	10	[CALC]	03/23/2024	03/28/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.13	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2724	03/27/2024	04/07/2024	U
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
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, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Guttersen 42-29

FLR01@4

3/20/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y403566-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4C2724	03/27/2024	04/07/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	112 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B4C2310	03/23/2024	03/25/2024
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SAR by 20B Saturated Paste

SAR	3.00	0.0100	SAR	1	B4C2305	03/23/2024	03/28/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.517	0.00500	mmhos/cm	1	B4C2310	03/23/2024	04/02/2024
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Table 915 metals by EPA 6020B

Arsenic	0.856	0.272	mg/kg	10	B4C2630	03/26/2024	03/28/2024
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Gutttersen 42-29

FLR01@4

3/20/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y403566-02 (Soil)

Table 915 metals by EPA 6020B

Barium	21.1	9.39	mg/kg	10	B4C2630	03/26/2024	03/28/2024
Cadmium	ND	0.0939	"	"	"	"	"
Copper	ND	9.39	"	"	"	"	"
Lead	7.34	0.939	"	"	"	"	"
Nickel	1.77	0.939	"	"	"	"	"
Selenium	ND	0.244	"	"	"	"	"
Silver	ND	0.0939	"	"	"	"	"
Zinc	ND	34.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L744974	03/20/2024	04/18/2024
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Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2159 - EPA 5030 (soil)										
Blank (B4C2159-BLK1)					Prepared: 03/21/2024 Analyzed: 03/23/2024					
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	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2159 - EPA 5030 (soil)										
LCS (B4C2159-BS1)					Prepared: 03/21/2024 Analyzed: 03/23/2024					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.233	0.00400	"	0.200		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.9	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2159 - EPA 5030 (soil)										
Matrix Spike (B4C2159-MS1)		Source: Y403528-01			Prepared: 03/21/2024 Analyzed: 03/23/2024					
1,2,4-Trimethylbenzene	0.0899	0.00200	mg/kg	0.100	0.00174	88.2	70-130			
1,3,5-Trimethylbenzene	0.201	0.00200	"	0.100	0.0649	136	70-130			QM-07
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Naphthalene	0.0720	0.00380	"	0.100	0.00222	69.8	70-130			QM-07
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.120	0.00200	"	0.100	0.00612	114	70-130			
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2159 - EPA 5030 (soil)										
Matrix Spike Dup (B4C2159-MSD1)		Source: Y403528-01			Prepared: 03/21/2024 Analyzed: 03/23/2024					
1,2,4-Trimethylbenzene	0.0727	0.00200	mg/kg	0.100	0.00174	70.9	70-130	21.2	20	QR-02
1,3,5-Trimethylbenzene	0.142	0.00200	"	0.100	0.0649	77.5	70-130	34.0	20	QR-02
Benzene	0.0897	0.00200	"	0.100	ND	89.7	70-130	8.29	20	
Ethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	19.3	20	
Naphthalene	0.0708	0.00380	"	0.100	0.00222	68.6	70-130	1.68	20	QM-07
Toluene	0.0916	0.00200	"	0.100	ND	91.6	70-130	10.1	20	
o-Xylene	0.102	0.00200	"	0.100	0.00612	95.4	70-130	16.6	20	
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.8	70-130	21.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Guttersen 42-29

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2202 - EPA 3550B

Blank (B4C2202-BLK1)

Prepared: 03/22/2024 Analyzed: 03/26/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.9	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Gutterson 42-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2202 - EPA 3550B

LCS (B4C2202-BS1)

Prepared: 03/22/2024 Analyzed: 03/26/2024

Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000		93.9	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.7	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Guttersen 42-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2202 - EPA 3550B

Matrix Spike (B4C2202-MS1)		Source: Y403561-01			Prepared: 03/22/2024 Analyzed: 03/26/2024					
Diesel (C10-C28)	948	50.0	mg/kg	1000	ND	94.8	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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Project Number: [none]

Project: Chevron - Gutttersen 42-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2202 - EPA 3550B

Matrix Spike Dup (B4C2202-MSD1)		Source: Y403561-01			Prepared: 03/22/2024 Analyzed: 03/26/2024					
Diesel (C10-C28)	859	50.0	mg/kg	1000	ND	85.9	70-130	9.81	35	
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	70-130	10.4	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Guttersen 42-29

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2630 - EPA 3050B

Blank (B4C2630-BLK1)

Prepared: 03/26/2024 Analyzed: 03/28/2024

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 (B4C2630-BS1)

Prepared: 03/26/2024 Analyzed: 03/28/2024

Arsenic	5.23	0.290	mg/kg	5.00	105	80-120
Barium	509	10.0	"	500	102	80-120
Cadmium	5.27	0.100	"	5.00	105	80-120
Copper	51.6	10.0	"	50.0	103	80-120
Lead	5.40	1.00	"	5.00	108	80-120
Nickel	5.56	1.00	"	5.00	111	80-120
Selenium	9.64	0.260	"	9.50	102	80-120
Silver	5.30	0.100	"	5.00	106	80-120
Zinc	50.4	37.0	"	50.0	101	80-120

Matrix Spike (B4C2630-MS1)

Source: Y403712-07

Prepared: 03/26/2024 Analyzed: 03/28/2024

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Grand Junction CO 81501

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Guttersen 42-29

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2630 - EPA 3050B

Matrix Spike (B4C2630-MS1)		Source: Y403712-07			Prepared: 03/26/2024 Analyzed: 03/28/2024					
Arsenic	9.60	0.266	mg/kg	4.59	5.15	97.0	75-125			
Barium	725	9.18	"	459	204	113	75-125			
Cadmium	4.88	0.0918	"	4.59	0.264	101	75-125			
Copper	61.8	9.18	"	45.9	16.1	99.6	75-125			
Lead	18.4	0.918	"	4.59	13.5	106	75-125			
Nickel	23.8	0.918	"	4.59	18.9	108	75-125			
Selenium	9.23	0.239	"	8.72	0.653	98.4	75-125			
Silver	4.62	0.0918	"	4.59	0.0573	99.5	75-125			
Zinc	107	34.0	"	45.9	61.8	98.0	75-125			
Matrix Spike Dup (B4C2630-MSD1)		Source: Y403712-07			Prepared: 03/26/2024 Analyzed: 03/28/2024					
Arsenic	12.4	0.282	mg/kg	4.86	5.15	148	75-125	25.1	20	QM-07, QR-02
Barium	857	9.72	"	486	204	134	75-125	16.7	20	QM-07
Cadmium	5.01	0.0972	"	4.86	0.264	97.6	75-125	2.63	20	
Copper	64.2	9.72	"	48.6	16.1	98.9	75-125	3.76	20	
Lead	19.1	0.972	"	4.86	13.5	115	75-125	3.75	20	
Nickel	23.6	0.972	"	4.86	18.9	96.1	75-125	1.17	20	
Selenium	10.6	0.253	"	9.24	0.653	108	75-125	14.0	20	
Silver	4.74	0.0972	"	4.86	0.0573	96.4	75-125	2.53	20	
Zinc	107	36.0	"	48.6	61.8	93.4	75-125	0.430	20	

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2724 - EPA 3580

Blank (B4C2724-BLK1)

Prepared: 03/27/2024 Analyzed: 04/07/2024

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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

LCS (B4C2724-BS1)

Prepared: 03/27/2024 Analyzed: 04/07/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.3	70-130
2-Methylnaphthalene	0.190	0.002	"	0.200		95.0	70-130
Acenaphthene	0.158	0.020	"	0.200		79.2	70-130
Anthracene	0.163	0.020	"	0.200		81.7	70-130

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Guttersen 42-29

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2724 - EPA 3580

LCS (B4C2724-BS1)

Prepared: 03/27/2024 Analyzed: 04/07/2024

Benzo (a) anthracene	0.167	0.005	mg/kg	0.200		83.4	70-130
Benzo (a) pyrene	0.201	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.2	70-130
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		102	70-130
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.1	70-130
Chrysene	0.177	0.020	"	0.200		88.3	70-130
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		99.2	70-130
Fluoranthene	0.166	0.020	"	0.200		83.2	70-130
Fluorene	0.157	0.020	"	0.200		78.4	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130
Naphthalene	0.170	0.002	"	0.200		84.8	70-130
Phenanthrene	0.176	0.020	"	0.200		87.8	70-130
Pyrene	0.171	0.020	"	0.200		85.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	210		"	200		103	60-130
Surrogate: Pyrene-d10	190		"	200		92.8	60-130
Surrogate: Benzo (a) pyrene-d12	220		"	200		110	60-130

Matrix Spike (B4C2724-MS1)

Source: Y403563-01

Prepared: 03/27/2024 Analyzed: 04/07/2024

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	0.011	100	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200	0.019	95.7	70-130
Acenaphthene	0.182	0.020	"	0.200	0.003	89.5	70-130
Anthracene	0.179	0.020	"	0.200	0.007	86.0	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.001	99.2	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200	0.015	106	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.010	104	70-130
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.013	91.1	70-130

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2724 - EPA 3580

Matrix Spike (B4C2724-MS1)		Source: Y403563-01			Prepared: 03/27/2024 Analyzed: 04/07/2024					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.015	89.2	70-130			
Chrysene	0.185	0.020	"	0.200	0.009	88.1	70-130			
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	0.008	112	70-130			
Fluoranthene	0.142	0.020	"	0.200	0.001	70.4	70-130			
Fluorene	0.176	0.020	"	0.200	0.014	81.1	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	0.010	92.4	70-130			
Naphthalene	0.180	0.002	"	0.200	0.002	88.5	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.011	89.3	70-130			
Pyrene	0.154	0.020	"	0.200	0.002	75.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	160		"	200		80.0	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

Matrix Spike Dup (B4C2724-MSD1)		Source: Y403563-01			Prepared: 03/27/2024 Analyzed: 04/07/2024					
1-Methylnaphthalene	0.213	0.002	mg/kg	0.200	0.011	101	70-130	0.556	20	
2-Methylnaphthalene	0.217	0.002	"	0.200	0.019	99.3	70-130	3.35	20	
Acenaphthene	0.188	0.020	"	0.200	0.003	92.5	70-130	3.21	20	
Anthracene	0.194	0.020	"	0.200	0.007	93.6	70-130	8.13	20	
Benzo (a) anthracene	0.222	0.005	"	0.200	0.001	110	70-130	10.6	20	
Benzo (a) pyrene	0.225	0.020	"	0.200	0.015	105	70-130	1.26	20	
Benzo (b) fluoranthene	0.219	0.020	"	0.200	0.010	104	70-130	0.816	20	
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.013	95.3	70-130	4.24	20	
Benzo (k) fluoranthene	0.212	0.020	"	0.200	0.015	98.6	70-130	9.31	20	
Chrysene	0.195	0.020	"	0.200	0.009	93.2	70-130	5.29	20	
Dibenz (a,h) anthracene	0.243	0.020	"	0.200	0.008	118	70-130	5.32	20	
Fluoranthene	0.148	0.020	"	0.200	0.001	73.5	70-130	4.31	20	

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Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2724 - EPA 3580

Matrix Spike Dup (B4C2724-MSD1)		Source: Y403563-01			Prepared: 03/27/2024 Analyzed: 04/07/2024					
Fluorene	0.182	0.020	mg/kg	0.200	0.014	84.2	70-130	3.41	20	
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	0.010	100	70-130	7.86	20	
Naphthalene	0.183	0.002	"	0.200	0.002	90.5	70-130	2.14	20	
Phenanthrene	0.193	0.020	"	0.200	0.011	91.0	70-130	1.78	20	
Pyrene	0.160	0.020	"	0.200	0.002	78.9	70-130	3.75	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		83.1	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Guttersen 42-29

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4C2305 - Saturated Paste Metals

Blank (B4C2305-BLK1)

Prepared: 03/23/2024 Analyzed: 03/28/2024

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

Duplicate (B4C2305-DUP1)

Source: Y403561-01

Prepared: 03/23/2024 Analyzed: 03/28/2024

Calcium PPM	29.1	10.0	mg/L	29.0	0.310	50
SAR	ND	0.0100	SAR	0.297		200
Magnesium PPM	5.11	10.0	mg/L	4.19	19.8	50
Sodium PPM	7.49	10.0	"	6.46	14.8	50

Batch B4C2514 - DTPA Sorbitol Preparation

Blank (B4C2514-BLK1)

Prepared: 03/25/2024 Analyzed: 03/26/2024

Boron	ND	0.100	mg/L
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Duplicate (B4C2514-DUP1)

Source: Y403563-01

Prepared: 03/25/2024 Analyzed: 03/26/2024

Boron	0.0865	0.0996	mg/L	0.0960	10.5	50
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Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutterson 42-29

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2310 - Saturated Paste pH/EC										
Blank (B4C2310-BLK1)					Prepared: 03/23/2024 Analyzed: 03/25/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C2310-DUP1)					Source: Y403561-01 Prepared: 03/23/2024 Analyzed: 03/25/2024					
pH	8.24		pH Units		8.12			1.47	25	
Specific Conductance (EC)	0.254	0.00500	mmhos/cm		0.271			6.24	25	

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Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Gutttersen 42-29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L744974 -										
DUP (L 97703-DUP)	Source: Y403566-02				Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 97703-MS)	Source: Y403566-02				Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	35.5	2.5	mg/Kg	39.6	< 0.244	90	75-125			
LCS (LCS)					Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	7.1	0.5	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 04/18/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Gutterson 42-29

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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