



May 22, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Watson E28-17

Project Number - [none]

Attached are your analytical results for Chevron - Watson E28-17 received by Origins Laboratory, Inc. May 07, 2024. This project is associated with Origins project number Y405238-01.

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 Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	Y405238-01	Soil	May 7, 2024 8:00	05/07/2024 15:30
FLR01@4	Y405238-02	Soil	May 7, 2024 8:05	05/07/2024 15:30

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y405238

Client: Entrada

Client Project ID: Watson E28-17

Checklist Completed by: CHO

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

Date/time completed: 5/9/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 18.2 °C _____ / _____ °C _____ / _____ °C (Describe)

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 ⁽¹⁾ ?		☒		<u>SD</u>
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 ⁽¹⁾ ?	☒			
Was adequate sample volume provided ⁽¹⁾ ?	☒			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		☒		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	☒			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	☒			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	☒			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	☒			
For volatiles in water – is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.			☒	
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)			☒	
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)

Date/Time Reviewed 5/9/12

Origins Laboratory, Inc.

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 - Watson E28-17

WH01@6'

5/7/2024 8:00:00AM

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

Y405238-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.558	0.101	mg/L	1	B4E0916	05/09/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E0803	05/08/2024	05/14/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	100 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0941	05/09/2024	05/11/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

WH01@6'

5/7/2024 8:00:00AM

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

Y405238-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.5 %	70-130				B4E09 41	05/09/2024	05/11/2024	
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.531	0.499	meq/L	10	[CALC]	05/09/2024	05/13/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	4.23	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1030	05/10/2024	05/14/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

WH01@6'

5/7/2024 8:00:00AM

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

Y405238-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E1030	05/10/2024	05/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.4 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B4E0922	05/09/2024	05/10/2024
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SAR by 20B Saturated Paste

SAR	6.29	0.0100	SAR	1	B4E0910	05/09/2024	05/13/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700	0.00500	mmhos/cm	1	B4E0922	05/09/2024	05/10/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

WH01@6'

5/7/2024 8:00:00AM

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

Y405238-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.30	0.251	mg/kg	10	B4E0824	05/08/2024	05/10/2024
Barium	191	8.64	"	"	"	"	"
Cadmium	0.150	0.0864	"	"	"	"	"
Copper	ND	8.64	"	"	"	"	"
Lead	6.82	0.864	"	"	"	"	"
Nickel	6.75	0.864	"	"	"	"	"
Selenium	ND	0.225	"	"	"	"	"
Silver	0.132	0.0864	"	"	"	"	"
Zinc	ND	32.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.132	0.331	mg/kg dry	1	2612092	05/18/2024	05/21/2024	U
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

FLR01@4

5/7/2024 8:05:00AM

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

Y405238-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.331	0.0990	mg/L	1	B4E0916	05/09/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E0803	05/08/2024	05/14/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	107 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E0941	05/09/2024	05/11/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
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330 Grand Ave. Unit C

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

FLR01@4

5/7/2024 8:05:00AM

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

Y405238-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.3 %	70-130				B4E09 41	05/09/2024	05/11/2024	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25	0.499	meq/L	10	[CALC]	05/09/2024	05/13/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	1.30	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1030	05/10/2024	05/14/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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330 Grand Ave. Unit C

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Project Number: [none]

Project: Chevron - Watson E28-17

FLR01@4

5/7/2024 8:05:00AM

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

Y405238-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E1030	05/10/2024	05/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.59	pH Units	1	B4E0922	05/09/2024	05/10/2024
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SAR by 20B Saturated Paste

SAR	1.34	0.0100	SAR	1	B4E0910	05/09/2024	05/13/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.389	0.00500	mmhos/cm	1	B4E0922	05/09/2024	05/10/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

FLR01@4

5/7/2024 8:05:00AM

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

Y405238-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.88	0.279	mg/kg	10	B4E0824	05/08/2024	05/10/2024
Barium	243	9.64	"	"	"	"	"
Cadmium	0.150	0.0964	"	"	"	"	"
Copper	ND	9.64	"	"	"	"	"
Lead	7.51	0.964	"	"	"	"	"
Nickel	9.69	0.964	"	"	"	"	"
Selenium	0.270	0.251	"	"	"	"	"
Silver	0.110	0.0964	"	"	"	"	"
Zinc	ND	35.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.373	mg/kg dry	1	2612092	05/18/2024	05/21/2024	U
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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
Batch B4E0803 - EPA 3550B										
Blank (B4E0803-BLK1)					Prepared: 05/08/2024 Analyzed: 05/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		113	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E0803 - EPA 3550B

LCS (B4E0803-BS1)

Prepared: 05/08/2024 Analyzed: 05/14/2024

Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000		124	70-130			
Surrogate: o-Terphenyl	70		"	49.8		142	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E0803 - EPA 3550B

Matrix Spike (B4E0803-MS1)		Source: Y405229-01			Prepared: 05/08/2024 Analyzed: 05/14/2024					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1260	200	"	1000	ND	126	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E0803 - EPA 3550B

Matrix Spike Dup (B4E0803-MSD1)		Source: Y405229-01			Prepared: 05/08/2024 Analyzed: 05/14/2024					
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130	2.21	35	
Residual Range Organics (C28-C40)	1290	200	"	1000	ND	129	70-130	2.05	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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
Batch B4E0941 - EPA 5030 (soil)										
Blank (B4E0941-BLK1)					Prepared: 05/09/2024 Analyzed: 05/11/2024					
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	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E0941 - EPA 5030 (soil)

LCS (B4E0941-BS1)

Prepared: 05/09/2024 Analyzed: 05/11/2024

1,2,4-Trimethylbenzene	0.0978	0.00200	mg/kg	0.100		97.8	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100		95.5	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0987	0.00200	"	0.100		98.7	70-130			
o-Xylene	0.0944	0.00200	"	0.100		94.4	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E0941 - EPA 5030 (soil)

Matrix Spike (B4E0941-MS1)		Source: Y405190-01			Prepared: 05/09/2024 Analyzed: 05/11/2024					
1,2,4-Trimethylbenzene	0.0851	0.00200	mg/kg	0.100	ND	85.1	70-130			
1,3,5-Trimethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Naphthalene	0.0677	0.00380	"	0.100	ND	67.7	70-130			QM-07
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
o-Xylene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E0941 - EPA 5030 (soil)										
Matrix Spike Dup (B4E0941-MSD1)		Source: Y405190-01			Prepared: 05/09/2024 Analyzed: 05/11/2024					
1,2,4-Trimethylbenzene	0.0760	0.00200	mg/kg	0.100	ND	76.0	70-130	11.4	20	
1,3,5-Trimethylbenzene	0.0762	0.00200	"	0.100	ND	76.2	70-130	11.6	20	
Benzene	0.0990	0.00200	"	0.100	ND	99.0	70-130	6.36	20	
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130	9.97	20	
Naphthalene	0.0676	0.00380	"	0.100	ND	67.6	70-130	0.0887	20	QM-07
Toluene	0.0871	0.00200	"	0.100	ND	87.1	70-130	9.00	20	
o-Xylene	0.0767	0.00200	"	0.100	ND	76.7	70-130	9.47	20	
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.5	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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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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 B4E0824 - EPA 3050B

Blank (B4E0824-BLK1)

Prepared: 05/08/2024 Analyzed: 05/09/2024

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 (B4E0824-BS1)

Prepared: 05/08/2024 Analyzed: 05/09/2024

Arsenic	5.24	0.290	mg/kg	5.00	105	80-120
Barium	502	10.0	"	500	100	80-120
Cadmium	5.13	0.100	"	5.00	103	80-120
Copper	45.6	10.0	"	50.0	91.2	80-120
Lead	5.03	1.00	"	5.00	101	80-120
Nickel	4.85	1.00	"	5.00	96.9	80-120
Selenium	9.87	0.260	"	9.50	104	80-120
Silver	5.01	0.100	"	5.00	100	80-120
Zinc	50.4	37.0	"	50.0	101	80-120

Matrix Spike (B4E0824-MS1)

Source: Y405229-01

Prepared: 05/08/2024 Analyzed: 05/09/2024

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E0824 - EPA 3050B

Matrix Spike (B4E0824-MS1)		Source: Y405229-01			Prepared: 05/08/2024 Analyzed: 05/09/2024					
Arsenic	7.14	0.263	mg/kg	4.53	3.94	70.5	75-125			QM-07
Barium	497	9.06	"	453	40.4	101	75-125			
Cadmium	4.65	0.0906	"	4.53	0.106	100	75-125			
Copper	54.3	9.06	"	45.3	11.8	93.7	75-125			
Lead	21.1	0.906	"	4.53	17.1	87.4	75-125			
Nickel	11.1	0.906	"	4.53	7.49	80.6	75-125			
Selenium	4.30	0.236	"	8.61	0.132	48.5	75-125			QM-07
Silver	4.43	0.0906	"	4.53	0.120	95.1	75-125			
Zinc	94.3	33.5	"	45.3	62.3	70.7	75-125			QM-07
Matrix Spike Dup (B4E0824-MSD1)		Source: Y405229-01			Prepared: 05/08/2024 Analyzed: 05/09/2024					
Arsenic	6.76	0.248	mg/kg	4.28	3.94	65.9	75-125	5.39	20	QM-07
Barium	493	8.56	"	428	40.4	106	75-125	0.644	20	
Cadmium	4.55	0.0856	"	4.28	0.106	104	75-125	2.15	20	
Copper	53.7	8.56	"	42.8	11.8	97.8	75-125	1.10	20	
Lead	20.9	0.856	"	4.28	17.1	88.2	75-125	0.878	20	
Nickel	10.0	0.856	"	4.28	7.49	59.5	75-125	10.5	20	QM-07
Selenium	4.18	0.223	"	8.14	0.132	49.7	75-125	3.01	20	QM-07
Silver	4.43	0.0856	"	4.28	0.120	101	75-125	0.125	20	
Zinc	88.7	31.7	"	42.8	62.3	61.8	75-125	6.10	20	QM-07

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E1030 - EPA 3580

Blank (B4E1030-BLK1)

Prepared: 05/10/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	101	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	98.6	60-130

LCS (B4E1030-BS1)

Prepared: 05/10/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	101	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200	100	70-130
Acenaphthene	0.190	0.020	"	0.200	95.1	70-130
Anthracene	0.179	0.020	"	0.200	89.6	70-130

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E1030 - EPA 3580

LCS (B4E1030-BS1)

Prepared: 05/10/2024 Analyzed: 05/14/2024

Benzo (a) anthracene	0.199	0.005	mg/kg	0.200		99.7	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200		96.1	70-130
Benzo (b) fluoranthene	0.208	0.020	"	0.200		104	70-130
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.9	70-130
Benzo (k) fluoranthene	0.190	0.020	"	0.200		95.0	70-130
Chrysene	0.188	0.020	"	0.200		94.0	70-130
Dibenz (a,h) anthracene	0.204	0.020	"	0.200		102	70-130
Fluoranthene	0.192	0.020	"	0.200		96.2	70-130
Fluorene	0.180	0.020	"	0.200		89.9	70-130
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130
Naphthalene	0.196	0.002	"	0.200		97.8	70-130
Phenanthrene	0.195	0.020	"	0.200		97.6	70-130
Pyrene	0.191	0.020	"	0.200		95.3	70-130
Surrogate: Fluorene-d10	180		ug/kg	200		91.4	60-130
Surrogate: Anthracene-d10	190		"	200		94.3	60-130
Surrogate: Pyrene-d10	200		"	200		99.5	60-130
Surrogate: Benzo (a) pyrene-d12	180		"	200		92.4	60-130

Matrix Spike (B4E1030-MS1)

Source: Y405227-01

Prepared: 05/10/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.0006	103	70-130
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.0	70-130
Acenaphthene	0.191	0.020	"	0.200	0.0006	95.1	70-130
Anthracene	0.197	0.020	"	0.200	0.001	97.6	70-130
Benzo (a) anthracene	0.201	0.005	"	0.200	ND	100	70-130
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	103	70-130
Benzo (b) fluoranthene	0.207	0.020	"	0.200	ND	103	70-130
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	0.0004	104	70-130

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E1030 - EPA 3580

Matrix Spike (B4E1030-MS1)		Source: Y405227-01			Prepared: 05/10/2024 Analyzed: 05/14/2024					
Benzo (k) fluoranthene	0.180	0.020	mg/kg	0.200	0.0006	89.6	70-130			
Chrysene	0.199	0.020	"	0.200	0.0003	99.5	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.194	0.020	"	0.200	ND	96.8	70-130			
Fluorene	0.197	0.020	"	0.200	0.001	97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.206	0.020	"	0.200	0.0002	103	70-130			
Pyrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Matrix Spike Dup (B4E1030-MSD1)		Source: Y405227-01			Prepared: 05/10/2024 Analyzed: 05/14/2024					
1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.0006	107	70-130	3.24	20	
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130	3.85	20	
Acenaphthene	0.200	0.020	"	0.200	0.0006	99.8	70-130	4.75	20	
Anthracene	0.202	0.020	"	0.200	0.001	100	70-130	2.86	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	ND	98.6	70-130	1.79	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	102	70-130	0.453	20	
Benzo (b) fluoranthene	0.208	0.020	"	0.200	ND	104	70-130	0.740	20	
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	0.0004	107	70-130	2.81	20	
Benzo (k) fluoranthene	0.203	0.020	"	0.200	0.0006	101	70-130	12.1	20	
Chrysene	0.202	0.020	"	0.200	0.0003	101	70-130	1.56	20	
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	ND	107	70-130	0.181	20	
Fluoranthene	0.186	0.020	"	0.200	ND	93.1	70-130	3.87	20	

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

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 B4E1030 - EPA 3580

Matrix Spike Dup (B4E1030-MSD1)		Source: Y405227-01			Prepared: 05/10/2024 Analyzed: 05/14/2024					
Fluorene	0.209	0.020	mg/kg	0.200	0.001	104	70-130	5.60	20	
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	105	70-130	1.33	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	1.52	20	
Phenanthrene	0.208	0.020	"	0.200	0.0002	104	70-130	0.849	20	
Pyrene	0.191	0.020	"	0.200	ND	95.3	70-130	2.56	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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 B4E0910 - Saturated Paste Metals

Blank (B4E0910-BLK1)

Prepared: 05/09/2024 Analyzed: 05/13/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	1.00	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4E0910-DUP1)

Source: Y405238-01

Prepared: 05/09/2024 Analyzed: 05/13/2024

SAR	ND	0.0100	SAR	6.29			200
Calcium PPM	16.8	10.0	mg/L	10.6		44.7	50
Magnesium PPM	0.547	1.00	"	4.53		157	50 QR-DUP
Sodium PPM	74.6	10.0	"	97.2		26.3	50

Batch B4E0916 - DTPA Sorbitol Preparation

Blank (B4E0916-BLK1)

Prepared: 05/09/2024 Analyzed: 05/10/2024

Boron	ND	0.100	mg/L
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Duplicate (B4E0916-DUP1)

Source: Y405232-02

Prepared: 05/09/2024 Analyzed: 05/10/2024

Boron	0.222	0.100	mg/L	0.209		5.94	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 Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0922 - Saturated Paste pH/EC										
Blank (B4E0922-BLK1)					Prepared: 05/09/2024 Analyzed: 05/10/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E0922-DUP1)					Source: Y405238-01 Prepared: 05/09/2024 Analyzed: 05/10/2024					
pH	8.79		pH Units		8.42			4.30	25	
Specific Conductance (EC)	0.579	0.00500	mmhos/cm		0.700			18.9	25	

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Watson E28-17

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
Batch 2612092 - SW846 3060A										
BLANK (1205733672-BLK)					Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.383	mg/kg				-			U
LCS (1205733673-BKS)					Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	2.91	0.298	mg/kg	2.98		97.5	80-120			
DUP (1205733674 D)					Source: 666916001 Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.392	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205733675 S)					Source: 666916001 Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	2.97	0.372	mg/kg dry	3.72	<0.149	77	75-125			
DUP (1205733676 D)					Source: 667046010 Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	ND	0.324	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205733677 S)					Source: 667046010 Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	2.79	0.315	mg/kg dry	3.15	<0.126	85.9	75-125			
ILCS (1205736912-ILCS)					Prepared: 05/18/2024 Analyzed: 05/21/2024					
Hexavalent Chromium	7.70	0.355	mg/kg	7.44		104	80-120			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Watson E28-17

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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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