



Facility Closure Investigation and Environmental Summary

WCL 24-5 Wellhead

ECMC Remediation Project #21028

Weld County, Colorado

Attachments:

Figure 1 – General Location Map

Figure 2 – Wellhead Soil Sample and Field Screening Locations

Table 1 – Soil Sample and Field Screening Location Information

Table 2 – Soil Analytical Results Summary Table – Volatile Organics

Table 3 – Soil Analytical Results Summary Table – PAHs

Table 4 – Soil Analytical Results Summary Table – Soil Suitability

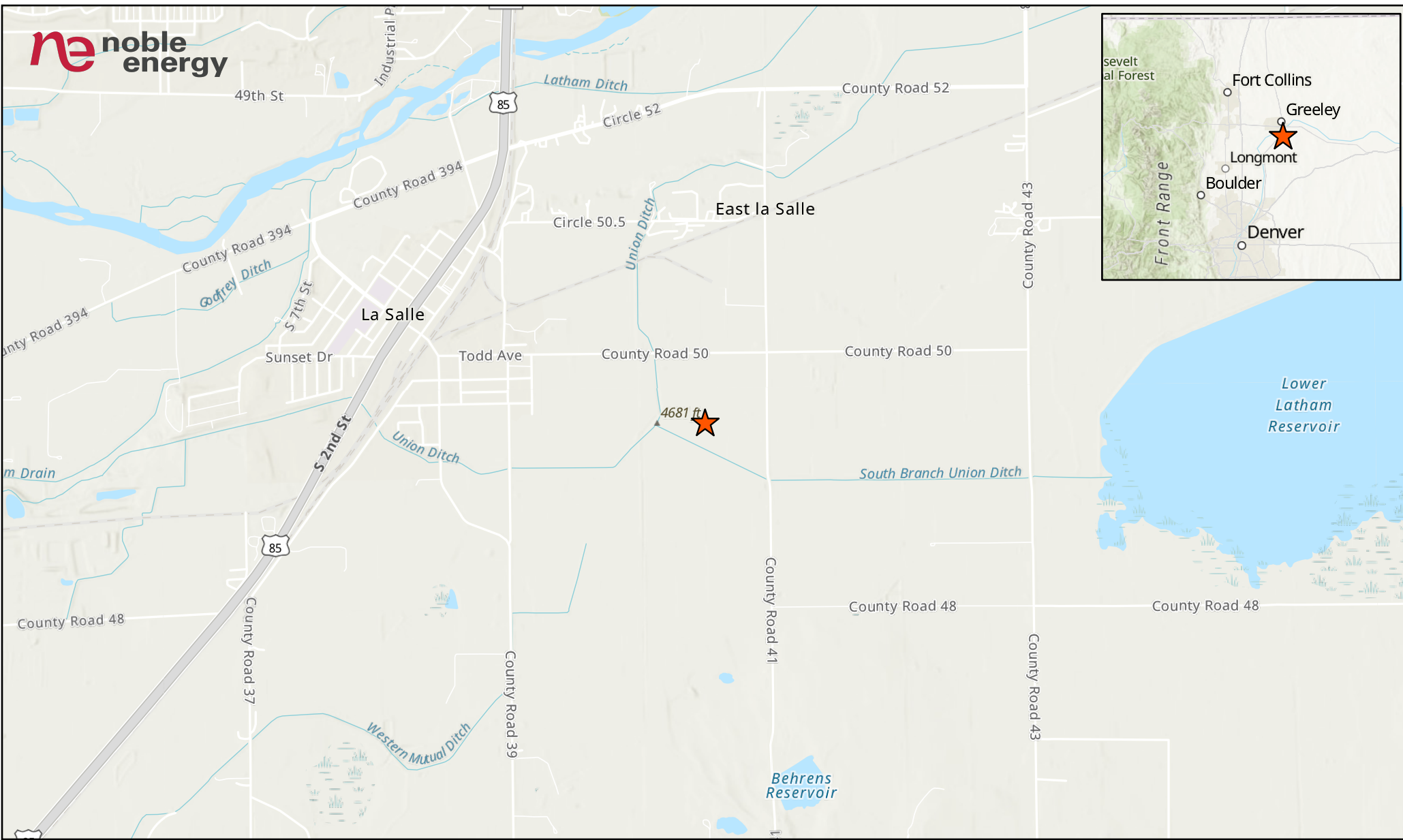
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

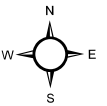
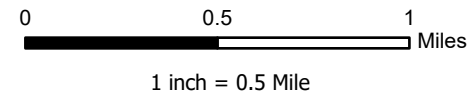
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

 Site Location



Project No: 024-247

Map By: JW

Date: 07/09/2024

**WCL 24-5 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 NE 1/4 SECTION 5
T4N R65W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure

1

WH01@6	
6/6/2024	
pH:	8.40
Arsenic (mg/kg):	2.00
Barium (mg/kg):	200

WH01-N@4 (0.0)

WH01-E@4 (0.0)

FLR01@4	
6/6/2024	
pH:	8.47
Arsenic (mg/kg):	2.01
Barium (mg/kg):	92.8

WH01-S@4 (0.0)

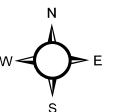
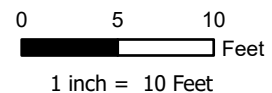
LABEL LEGEND	
XXXX@X: SAMPLE NAME @ DEPTH IN FEET	
WH: WELLHEAD SAMPLE	
FLR: FLOWLINE RISER SAMPLE	
RED: ABOVE ECMC TABLE 915-1 GWSSL	

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

NOTES:
 - Sample Label (PID Result in ppm)
 - ppm = parts per million
 - PID = photoionization detector



Project No: 024-247	WCL 24-5 WELLHEAD SOIL SAMPLE AND FIELD SCREENING LOCATIONS NOBLE ENERGY SE 1/4 NE 1/4 SECTION 5 T4N R65W, 6TH PM WELD COUNTY, COLORADO		1843 Sunlight Drive Longmont, CO 80504 303.378.4036	Figure
Map By: JW				2
Date: 07/09/2024				

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
WCL 24-5 WELLHEAD, WELD COUNTY, COLORADO
REM # 21028

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH01@6	6/6/2024	6	40.344624	-104.682327	0.0
FLR01@4	6/6/2024	4	40.344623	-104.682378	0.0
WH01-N@4	6/6/2024	4	40.344666	-104.682328	0.0
WH01-E@4	6/6/2024	4	40.344626	-104.682275	0.0
WH01-S@4	6/6/2024	4	40.344587	-104.682322	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

ppm - Parts per million

ft-bgs - feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
WCL 24-5 WELLHEAD, WELD COUNTY, COLORADO
REM # 21028

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01@6	6/6/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	6/6/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

2. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
WCL 24-5 WELLHEAD, WELD COUNTY, COLORADO
REM # 21028

Sample ID	Sample Date	Depth (ft-bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01@6	6/6/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FLR01@4	6/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
WCL 24-5 WELLHEAD, WELD COUNTY, COLORADO
REM # 21028

Sample ID	Sample Date	Depth (ft-bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01@6	6/6/2024	6	8.40	0.326	1.88	<0.0995
FLR01@4	6/6/2024	4	8.47	0.396	1.95	0.128

1. **RED** - Above ECMC Table 915-1 Standards
 2. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- ft-bgs - feet below ground surface
EC - Electrical Conductivity
SAR - Sodium adsorption ratio
mmhos/cm - millimhos per centimeter
mg/L - milligrams per liter

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
WCL 24-5 WELLHEAD, WELD COUNTY, COLORADO
REM # 21028

Sample ID	Sample Date	Depth (ft-bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01@6	6/6/2024	6	2.00	200	0.113	<0.105*	<9.43	6.84	5.24	<0.245	0.104	<34.9
FLR01@4	6/6/2024	4	2.01	92.8	0.230	<0.119*	10.3	9.44	5.24	<0.231	0.143	36.5

1. **RED** - Above ECMC Table 915-1 Standards

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

* Indicates laboratory minimum detection limit in excess of SSL

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

WCL 24-5 Wellhead Photographic Log



WCL 24-5 Wellhead Photographic Log



WCL 24-5 Wellhead Photographic Log



WCL 24-5 Wellhead Photographic Log



**ATTACHMENT B
FACILITY CLOSURE CHECKLISTS**

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: WCL 24-5, 412339		Date: 6/6/2024					Remediation Project #: 21028		
Associated Wells: NA		Age of Site: 2/10/2010 - spud date					Number of Photos Attached: 4		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.344638 / -104.682315							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good.									
USCS Soil Type: SM				Estimated Depth to Groundwater: Unknown/Not encountered					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Wellhead(s)									
Well API	05-123-30418								
Age	2/10/2010 - spud								
Condition of surface around wellhead	Good.								
PID Readings	0.0 ppm								
Condition of subsurface (staining present)	Good.								
PID Readings	0.0 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-4								
Other observations regarding wellheads: None observed.									
Summary									
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 5					Total number of samples collected: 5				
Highest PID Reading: 0.0 ppm					Total number of samples submitted to lab for analysis: 2				
If more than 10 cubic yards of impacted soil were observed: NA									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:					Commencement date of removal:				
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:				
Free product observed? Yes No					Volume of groundwater removed post sampling:				
Total number of samples collected:					Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:									

**ATTACHMENT C
LABORATORY ANALYTICAL REPORTS**

June 25, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - WCL 24-5

Project Number - [none]

Attached are your analytical results for Chevron - WCL 24-5 received by Origins Laboratory, Inc. June 06, 2024. This project is associated with Origins project number Y406205-01.

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - WCL 24-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y406205-01	Soil	June 6, 2024 14:00	06/06/2024 17:20
FLR01@4	Y406205-02	Soil	June 6, 2024 14:05	06/06/2024 17:20

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

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

ORIGINS
 LABORATORY, INC

4406205

www.originslaboratory.com

Bill to Larson
 (Dusty Smith)

page 1 of 1

Client: Entrada
 Address: _____
 Telephone Number: 303-319-8703
 Email Address: Entrada Distribution c: RMEVF27@adur.com
 Project Manager: Chelsea Veryser
 Project Name: WCL 24.5
 Project Number: _____
 Samples Collected By: Jen Larson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix					Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			Table 915
W401E6	6/6/24	1400	2	X								X		
FLR01 @ Y		1405										X		Hold
W401-N04		1410										X		Hold
W401-E04		1415										X		Hold
W401-S04		1420										X		Hold

Temp Received: 29.7°C

Date Results Needed

Relinquished By: [Signature]
 Date: 6/6/24
 Time: 1600

Received By: [Signature]
 Date: 6/6/24
 Time: 1555

Turnaround Time:
 Same Day 24 Hr
 48 Hr 72 Hr
 Standard

Origins Laboratory, Inc.
[Signature]

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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406205 Client: Entrada
 Checklist Completed by: EHO Client Project ID: WCL 24-5
 Date/time completed: 6/7/24 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 29.7 °c 1 °c 1 °c (Describe) _____ °c
 Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
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 (> ¼ 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 Na ₂ SO 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) EHO Date/Time Reviewed 6/7/24

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

WH01@6
6/6/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406205-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0995	mg/L	1	B4F1012	06/10/2024	06/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1201	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F0901	06/09/2024	06/11/2024	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	95.2 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

WH01@6
 6/6/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4F09 01	06/09/2024	06/11/2024	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.896		0.499	meq/L	10	[CALC]	06/11/2024	06/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.46		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1123	06/11/2024	06/18/2024	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.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

WH01@6
6/6/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406205-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1123	06/11/2024	06/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B4F1119	06/11/2024	06/12/2024	
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SAR by 20B Saturated Paste

SAR	1.88		0.0100	SAR	1	B4F1113	06/11/2024	06/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.326		0.00500	mmhos/cm	1	B4F1119	06/11/2024	06/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - WCL 24-5

WH01@6
 6/6/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.00		0.274	mg/kg	10	B4F0733	06/07/2024	06/08/2024	
Barium	200		9.43	"	"	"	"	"	
Cadmium	0.113		0.0943	"	"	"	"	"	
Copper	ND		9.43	"	"	"	"	"	
Lead	6.84		0.943	"	"	"	"	"	
Nickel	5.24		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	0.104		0.0943	"	"	"	"	"	
Zinc	ND		34.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.105	0.263	mg/kg dry	1	2630045	06/21/2024	06/24/2024	U
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

FLR01@4
 6/6/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.128		0.101	mg/L	1	B4F1012	06/10/2024	06/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1201	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F0901	06/09/2024	06/11/2024	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	95.1 %		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 - WCL 24-5

FLR01@4

6/6/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4F09 01	06/09/2024	06/11/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.26		0.499	meq/L	10	[CALC]	06/11/2024	06/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.78		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1123	06/11/2024	06/18/2024	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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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

FLR01@4
 6/6/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1123	06/11/2024	06/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B4F1119	06/11/2024	06/12/2024	
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SAR by 20B Saturated Paste

SAR	1.95		0.0100	SAR	1	B4F1113	06/11/2024	06/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.396		0.00500	mmhos/cm	1	B4F1119	06/11/2024	06/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - WCL 24-5

FLR01@4

6/6/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406205-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.01		0.258	mg/kg	10	B4F0733	06/07/2024	06/08/2024	
Barium	92.8		8.89	"	"	"	"	"	
Cadmium	0.230		0.0889	"	"	"	"	"	
Copper	10.3		8.89	"	"	"	"	"	
Lead	9.44		0.889	"	"	"	"	"	
Nickel	5.24		0.889	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	0.143		0.0889	"	"	"	"	"	
Zinc	36.5		32.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.119	0.297	mg/kg dry	1	2630045	06/21/2024	06/24/2024	U
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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 - WCL 24-5

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 B4F0901 - EPA 5030 (soil)

Blank (B4F0901-BLK1)

Prepared: 06/09/2024 Analyzed: 06/10/2024

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	0.099		"	0.125	78.9		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.8		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 - WCL 24-5

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 B4F0901 - EPA 5030 (soil)

LCS (B4F0901-BS1)

Prepared: 06/09/2024 Analyzed: 06/10/2024

1,2,4-Trimethylbenzene	0.0906	0.00200	mg/kg	0.100		90.6	70-130			
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100		90.9	70-130			
Benzene	0.0837	0.00200	"	0.100		83.7	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Naphthalene	0.0912	0.00380	"	0.100		91.2	70-130			
Toluene	0.0864	0.00200	"	0.100		86.4	70-130			
o-Xylene	0.0905	0.00200	"	0.100		90.5	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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 - WCL 24-5

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 B4F0901 - EPA 5030 (soil)

Matrix Spike (B4F0901-MS1)	Source: Y406188-01			Prepared: 06/09/2024 Analyzed: 06/10/2024						
1,2,4-Trimethylbenzene	0.0921	0.00200	mg/kg	0.100	0.00104	91.1	70-130			
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
Benzene	0.0838	0.00200	"	0.100	0.000900	82.9	70-130			
Ethylbenzene	0.0899	0.00200	"	0.100	0.00128	88.6	70-130			
Naphthalene	0.0939	0.00380	"	0.100	0.00160	92.3	70-130			
Toluene	0.110	0.00200	"	0.100	0.0215	88.6	70-130			
o-Xylene	0.0945	0.00200	"	0.100	0.00150	93.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	0.00456	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	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 Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

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 B4F0901 - EPA 5030 (soil)

Matrix Spike Dup (B4F0901-MSD1)	Source: Y406188-01			Prepared: 06/09/2024 Analyzed: 06/10/2024						
1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100	0.00104	86.5	70-130	5.17	20	
1,3,5-Trimethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130	5.31	20	
Benzene	0.0808	0.00200	"	0.100	0.000900	79.9	70-130	3.67	20	
Ethylbenzene	0.0853	0.00200	"	0.100	0.00128	84.0	70-130	5.18	20	
Naphthalene	0.0927	0.00380	"	0.100	0.00160	91.1	70-130	1.22	20	
Toluene	0.108	0.00200	"	0.100	0.0215	86.2	70-130	2.24	20	
o-Xylene	0.0911	0.00200	"	0.100	0.00150	89.6	70-130	3.69	20	
m,p-Xylene	0.179	0.00400	"	0.200	0.00456	87.4	70-130	3.90	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - WCL 24-5

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 B4F1201 - EPA 3550B										
Blank (B4F1201-BLK1)										
					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		90.9	50-150			

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 - WCL 24-5

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 B4F1201 - EPA 3550B

LCS (B4F1201-BS1)

Prepared: 06/12/2024 Analyzed: 06/13/2024

Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	70-130			
Residual Range Organics (C28-C40)	893	200	"	1000		89.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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 - WCL 24-5

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 B4F1201 - EPA 3550B

Matrix Spike (B4F1201-MS1)	Source: Y406202-01			Prepared: 06/12/2024 Analyzed: 06/13/2024						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	896	200	"	1000	ND	89.6	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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 - WCL 24-5

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 B4F1201 - EPA 3550B

Matrix Spike Dup (B4F1201-MSD1)	Source: Y406202-01		Prepared: 06/12/2024 Analyzed: 06/13/2024							
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130	0.809	35	
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130	0.804	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 - WCL 24-5

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 B4F0733 - EPA 3050B

Blank (B4F0733-BLK1)

Prepared: 06/07/2024 Analyzed: 06/08/2024

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 (B4F0733-BS1)

Prepared: 06/07/2024 Analyzed: 06/08/2024

Arsenic	5.16	0.290	mg/kg	5.00		103	80-120			
Barium	499	10.0	"	500		99.9	80-120			
Cadmium	5.28	0.100	"	5.00		106	80-120			
Copper	53.4	10.0	"	50.0		107	80-120			
Lead	5.04	1.00	"	5.00		101	80-120			
Nickel	5.14	1.00	"	5.00		103	80-120			
Selenium	9.02	0.260	"	9.50		94.9	80-120			
Silver	5.21	0.100	"	5.00		104	80-120			
Zinc	55.0	37.0	"	50.0		110	80-120			

Matrix Spike (B4F0733-MS1)

Source: Y406182-01

Prepared: 06/07/2024 Analyzed: 06/08/2024

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 - WCL 24-5

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 B4F0733 - EPA 3050B

Matrix Spike (B4F0733-MS1)		Source: Y406182-01			Prepared: 06/07/2024 Analyzed: 06/08/2024					
Arsenic	6.16	0.253	mg/kg	4.37	2.01	95.0	75-125			
Barium	478	8.74	"	437	47.5	98.4	75-125			
Cadmium	4.58	0.0874	"	4.37	0.0674	103	75-125			
Copper	53.0	8.74	"	43.7	6.77	106	75-125			
Lead	8.45	0.874	"	4.37	4.93	80.5	75-125			
Nickel	11.6	0.874	"	4.37	8.35	74.8	75-125			QM-07
Selenium	8.62	0.227	"	8.30	ND	104	75-125			
Silver	4.57	0.0874	"	4.37	0.0769	103	75-125			
Zinc	70.4	32.3	"	43.7	25.7	102	75-125			

Matrix Spike Dup (B4F0733-MSD1)		Source: Y406182-01			Prepared: 06/07/2024 Analyzed: 06/08/2024					
Arsenic	6.57	0.277	mg/kg	4.77	2.01	95.6	75-125	6.46	20	
Barium	553	9.54	"	477	47.5	106	75-125	14.7	20	
Cadmium	5.20	0.0954	"	4.77	0.0674	108	75-125	12.6	20	
Copper	58.7	9.54	"	47.7	6.77	109	75-125	10.2	20	
Lead	9.44	0.954	"	4.77	4.93	94.5	75-125	11.1	20	
Nickel	12.6	0.954	"	4.77	8.35	88.0	75-125	7.66	20	
Selenium	9.07	0.248	"	9.06	ND	100	75-125	5.06	20	
Silver	5.24	0.0954	"	4.77	0.0769	108	75-125	13.6	20	
Zinc	78.1	35.3	"	47.7	25.7	110	75-125	10.4	20	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

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 B4F1123 - EPA 3580

Blank (B4F1123-BLK1)

Prepared: 06/11/2024 Analyzed: 06/18/2024

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		102	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

LCS (B4F1123-BS1)

Prepared: 06/11/2024 Analyzed: 06/18/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		90.8	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200		91.0	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.189	0.020	"	0.200		94.3	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 - WCL 24-5

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 B4F1123 - EPA 3580

LCS (B4F1123-BS1)

Prepared: 06/11/2024 Analyzed: 06/18/2024

Benzo (a) anthracene	0.220	0.005	mg/kg	0.200		110	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (b) fluoranthene	0.161	0.020	"	0.200		80.6	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (k) fluoranthene	0.182	0.020	"	0.200		91.2	70-130			
Chrysene	0.194	0.020	"	0.200		96.9	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.212	0.020	"	0.200		106	70-130			
Fluorene	0.185	0.020	"	0.200		92.4	70-130			
Indeno (1,2,3-cd) pyrene	0.225	0.020	"	0.200		113	70-130			
Naphthalene	0.186	0.002	"	0.200		93.0	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.1	70-130			
Pyrene	0.187	0.020	"	0.200		93.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	200		"	200		99.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike (B4F1123-MS1)

Source: Y406197-01

Prepared: 06/11/2024 Analyzed: 06/18/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	0.0005	93.4	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.6	70-130			
Acenaphthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.224	0.005	"	0.200	ND	112	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200	0.002	95.5	70-130			
Benzo (b) fluoranthene	0.165	0.020	"	0.200	ND	82.4	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.0	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 - WCL 24-5

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 B4F1123 - EPA 3580

Matrix Spike (B4F1123-MS1)		Source: Y406197-01			Prepared: 06/11/2024 Analyzed: 06/18/2024					
Benzo (k) fluoranthene	0.176	0.020	mg/kg	0.200	ND	87.8	70-130			
Chrysene	0.199	0.020	"	0.200	ND	99.3	70-130			
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	ND	105	70-130			
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130			
Fluorene	0.191	0.020	"	0.200	ND	95.5	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	ND	111	70-130			
Naphthalene	0.192	0.002	"	0.200	ND	96.2	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.4	70-130			
Pyrene	0.191	0.020	"	0.200	0.0005	95.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

Matrix Spike Dup (B4F1123-MSD1)		Source: Y406197-01			Prepared: 06/11/2024 Analyzed: 06/18/2024					
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.0005	94.3	70-130	0.877	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.7	70-130	1.08	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.5	70-130	0.128	20	
Anthracene	0.202	0.020	"	0.200	ND	101	70-130	2.05	20	
Benzo (a) anthracene	0.227	0.005	"	0.200	ND	113	70-130	0.955	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	0.002	96.7	70-130	1.20	20	
Benzo (b) fluoranthene	0.162	0.020	"	0.200	ND	80.9	70-130	1.88	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	ND	93.6	70-130	1.45	20	
Benzo (k) fluoranthene	0.180	0.020	"	0.200	ND	90.1	70-130	2.51	20	
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130	0.166	20	
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	ND	104	70-130	0.661	20	
Fluoranthene	0.226	0.020	"	0.200	ND	113	70-130	4.10	20	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

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 B4F1123 - EPA 3580

Matrix Spike Dup (B4F1123-MSD1)	Source: Y406197-01			Prepared: 06/11/2024 Analyzed: 06/18/2024						
Fluorene	0.198	0.020	mg/kg	0.200	ND	99.2	70-130	3.87	20	
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	ND	110	70-130	1.12	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	0.479	20	
Phenanthrene	0.188	0.020	"	0.200	ND	94.1	70-130	0.735	20	
Pyrene	0.191	0.020	"	0.200	0.0005	95.1	70-130	0.0921	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		98.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.1	60-130			

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1012 - DTPA Sorbitol Preparation										
Blank (B4F1012-BLK1)					Prepared: 06/10/2024 Analyzed: 06/11/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4F1012-DUP1)		Source: Y406202-01			Prepared: 06/10/2024 Analyzed: 06/11/2024					
Boron	0.841	0.100	mg/L		0.694			19.2	50	
Batch B4F1113 - Saturated Paste Metals										
Blank (B4F1113-BLK1)					Prepared: 06/11/2024 Analyzed: 06/12/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4F1113-DUP1)		Source: Y406202-01			Prepared: 06/11/2024 Analyzed: 06/12/2024					
Calcium PPM	30.7	10.0	mg/L		30.8			0.130	50	
SAR	ND	0.0100	SAR		2.47				200	
Magnesium PPM	8.53	10.0	mg/L		8.44			1.06	50	
Sodium PPM	67.9	10.0	"		60.0			12.4	50	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1119 - Saturated Paste pH/EC										
Blank (B4F1119-BLK1)					Prepared: 06/11/2024 Analyzed: 06/12/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1119-DUP1)					Source: Y406202-01 Prepared: 06/11/2024 Analyzed: 06/12/2024					
pH	8.21		pH Units		8.41			2.41	25	
Specific Conductance (EC)	0.622	0.00500	mmhos/cm		0.566			9.40	25	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - WCL 24-5

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2630045 - SW846 3060A										
BLANK (1205768614-BLK)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.240	mg/kg				-			U
LCS (1205768615-BKS)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	2.79	0.280	mg/kg	2.80		99.7	80-120			
DUP (1205768616 D)					Source: 670978001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.332	mg/kg dry		<0.133		0-50	N/A	50	U
MS (1205768617 S)					Source: 670978001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	2.25	0.332	mg/kg dry	3.32	<0.133	65.3	75-125			
DUP (1205768618 D)					Source: 670996001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.343	mg/kg dry		<0.137		0-50	N/A	50	U
MS (1205768619 S)					Source: 670996001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	2.96	0.343	mg/kg dry	3.43	<0.137	84.2	75-125			
ILCS (1205768620-ILCS)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	5.32	0.262	mg/kg	5.29		100	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 - WCL 24-5

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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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