



Facility Closure Investigation and Environmental Summary

Leonard 21-1614 Wellhead

ECMC Remediation Project #34728

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

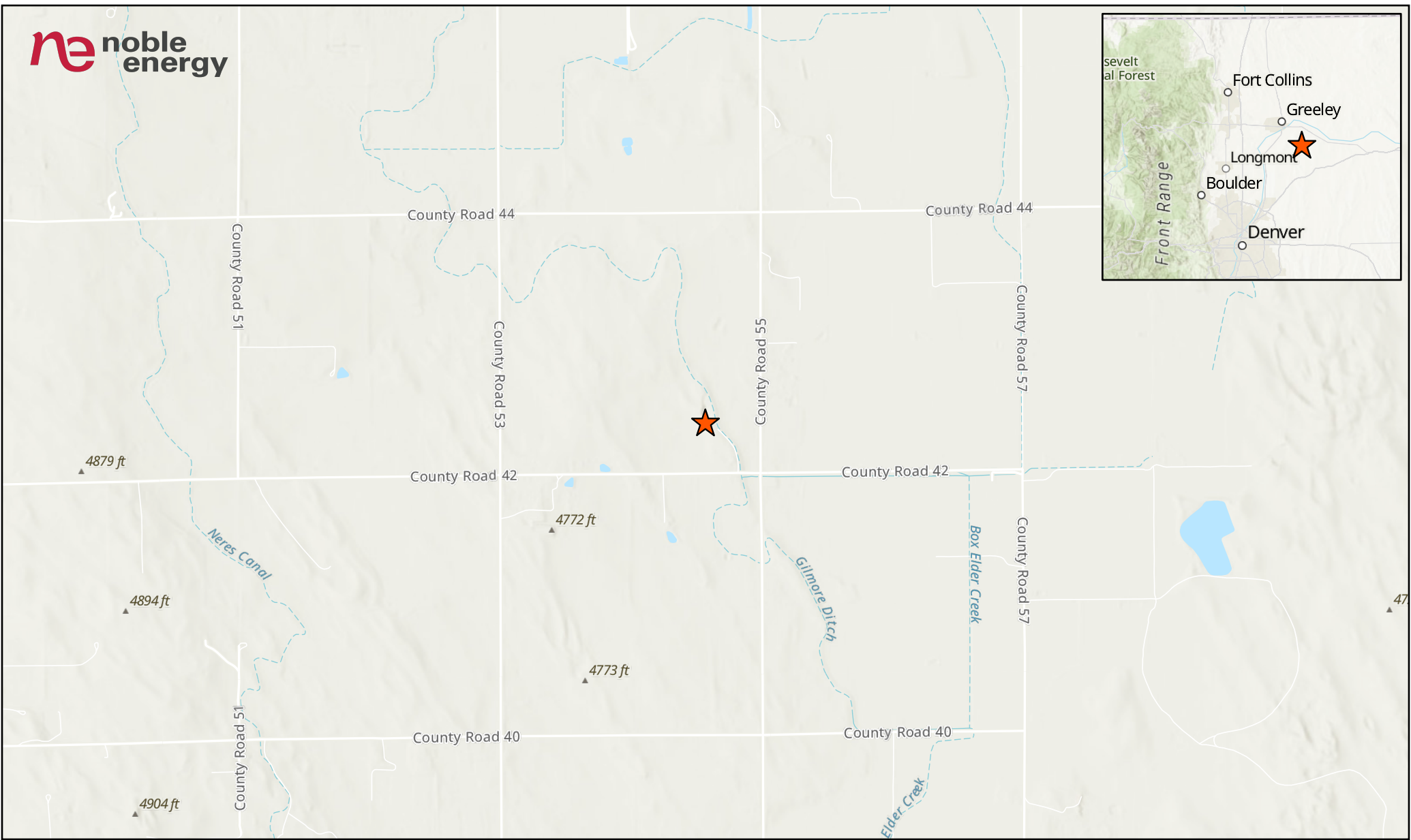
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

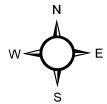
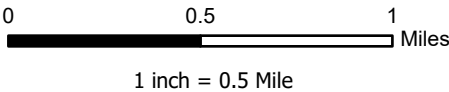
Attachment C: Laboratory Analytical Reports


FIGURES



LEGEND

 Site Location



Project No: 024-258	<p>LEONARD 21-1614 WELLHEAD GENERAL LOCATION MAP NOBLE ENERGY SE 1/4 SE 1/4 SECTION 21 T4N R64W, 6TH PM WELD COUNTY, COLORADO</p>	 1843 Sunlight Dr. Longmont, CO 80504 303.378.4036	Figure
Map By: JW			1
Date: 07/26/2024			

WH01@6	
6/12/2024	
pH:	8.48
Arsenic (mg/kg):	1.35
Lead (mg/kg):	16.8

FLR01@4	
6/12/2024	
pH:	8.45
Arsenic (mg/kg):	1.74

WH01-N@4 (4.6)

WH01-S@4 (134.4)

WH01-W@4 (62.2)

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

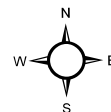
Legend

● Soil Sample ● Screening Location

NOTES:

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

0 5 10
 Feet
 1 inch = 10 Feet



Project No: 024-258

Map By: JW

Date: 07/26/2024

LEONARD 21-1614 WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 SE 1/4 SE 1/4 SECTION 21
 T4N R64W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Drive
 Longmont, CO 80504
 303.378.4036

Figure

2

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
LEONARD 21-1614 WELLHEAD, WELD COUNTY, COLORADO
REM # 34728

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	6/12/2024	6	40.293510	-104.550350	153.8
FLR01@4	6/12/2024	4	40.293527	-104.550338	19.0
WH01-W@4	6/12/2024	4	40.293495	-104.550364	62.2
WH01-S@4	6/12/2024	4	40.293501	-104.550333	134.4
WH01-N@4	6/12/2024	4	40.293518	-104.550368	4.6

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
LEONARD 21-16I4 WELLHEAD, WELD COUNTY, COLORADO
REM # 34728

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	6/12/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	66.31	1.41	64.9	<100
FLR01@4	6/12/2024	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 indicates 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
LEONARD 21-1614 WELLHEAD, WELD COUNTY, COLORADO
REM # 34728

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	6/12/2024	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	0.006	0.006
FLR01@4	6/12/2024	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 indicates 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
LEONARD 21-1614 WELLHEAD, WELD COUNTY, COLORADO
REM # 34728

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	6/12/2024	6	8.48	0.297	2.19	0.237
FLR01@4	6/12/2024	4	8.45	0.232	0.782	0.142

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

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
LEONARD 21-1614 WELLHEAD, WELD COUNTY, COLORADO
REM # 34728

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	6/12/2024	6	1.35	51.7	<0.0884	<0.111*	<8.84	16.8	3.44	<0.230	<0.0884	<32.7
FLR01@4	6/12/2024	4	1.74	58.8	<0.0962	<0.105*	<9.62	9.79	3.55	<0.250	<0.0962	<35.6

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

. 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 reporting or minimum detection limit in excess of SSL

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

ATTACHMENT A
PHOTOGRAPHIC LOG

Leonard 21-1614 Wellhead Photographic Log



Leonard 21-1614 Wellhead Photographic Log



Leonard 21-1614 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: Leonard 21-1614, 250706		Date: 06/12/2024					Remediation Project #: 34728
Associated Wells: Novacek C28-27D		Age of Site: 09/01/1994-spud date					Number of Photos Attached: 3
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.293520 / -104.550350						Estimated Facility Size (acres): ~0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)							
Overall good, some odor detected							
USCS Soil Type: Silty Sand (SM)				Estimated Depth to Groundwater: Unknown as none encountered			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)							
None encountered or observed							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)							
None encountered or observed							
Wellhead(s)							
Well API	05-123-18509						
Age	09/01/1994-spud date						
Condition of surface around wellhead	Good						
PID Readings	4.6 to 153.8 ppm						
Condition of subsurface (staining present)	Odor						
PID Readings	4.6 to 153.8 ppm						
Sample taken? Location/Sample ID#	WH01@6, FLR01@4						
Photo Number(s)	1-3						
Other observations regarding wellheads:							
Odor was detected around the floor and the south sidewall of the wellhead							
Summary							
Was impacted soil identified?							
<input checked="" type="checkbox"/> 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: 153.8 ppm				Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:				Estimated spill volume:			
Lateral extent:				Volume of soil removed:			
Is additional investigation required?							
Was groundwater encountered during the investigation?							
<input checked="" type="checkbox"/> 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 27, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Leonard 21-1614

Project Number - [none]

Attached are your analytical results for Chevron - Leonard 21-1614 received by Origins Laboratory, Inc. June 12, 2024. This project is associated with Origins project number Y406376-01.

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 - Leonard 21-1614

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y406376-01	Soil	June 12, 2024 12:00	06/12/2024 17:10
FLR01@4	Y406376-02	Soil	June 12, 2024 12:05	06/12/2024 17:10

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 - Leonard 21-1614

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Client: Entrada

Address: _____

Telephone Number: 303.319.8703

Email Address: Entrada Distribution

CC: RRW EUP 21-1614

Samples Collected By: Ena Luv

Project Number: _____

Project Name: Leonard 21-1614

Project Manager: Chelsea Veryser

7406376

311 to Churn
(Duty shift)

page 1 of 1

Temp Received: 20.1°C

Date Results Needed

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	
W101-06	6/12/24	1205	2	X							1
W101-04		1205									2
W101-N04		1210									3
W101-W04		1215									4
W101-S04		1220									5
											6
											7
											8
											9
											10

Relinquished By: _____

Date: 6/12/24

Time: 1500

Received By: _____

Date: 06/12/24

Time: 1600

Turnaround Time: _____

Some Day: ☐ 48 hr: ☐ 72 hr: ☐

Standard: ☒

Origins Laboratory, Inc.

Bynon

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 - Leonard 21-1614

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406376

Client: Entrada

Client Project ID: Leonard 21-1614

Checklist Completed by: EHV

Shipped Via: LTD

Date/time completed: 6/13/24

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1/20, 1°C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T005

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>SO</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) JB Date/Time Reviewed 6/14/24

Origins Laboratory, Inc.

J. Bynon

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 - Leonard 21-1614

WH01@6

6/12/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406376-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.237	0.100	mg/L	1	B4F1411	06/14/2024	06/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.9	25.0	mg/kg	1	B4F1407	06/14/2024	06/19/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1331	06/13/2024	06/14/2024	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	1.41	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %	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 - Leonard 21-1614

WH01@6

6/12/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406376-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B4F13 31	06/13/2024	06/14/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.735	0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.52	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.006	0.002	mg/kg	1	B4F1335	06/13/2024	06/19/2024
2-Methylnaphthalene	0.006	0.002	"	"	"	"	"
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
Fluorene	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 - Leonard 21-1614

WH01@6

6/12/2024 12:00:00PM

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

Y406376-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4F1335	06/13/2024	06/19/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	110 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B4F1419	06/14/2024	06/18/2024
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SAR by 20B Saturated Paste

SAR	2.19	0.0100	SAR	1	B4F1415	06/14/2024	06/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.297	0.00500	mmhos/cm	1	B4F1419	06/14/2024	06/18/2024
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Table 915 metals by EPA 6020B

Arsenic	1.35	0.256	mg/kg	10	B4F1325	06/13/2024	06/17/2024
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Leonard 21-1614

WH01@6

6/12/2024 12:00:00PM

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

Y406376-01 (Soil)

Table 915 metals by EPA 6020B

Barium	51.7		8.84	mg/kg	10	B4F1325	06/13/2024	06/17/2024	
Cadmium	ND		0.0884	"	"	"	"	"	
Copper	ND		8.84	"	"	"	"	"	
Lead	16.8		0.884	"	"	"	"	"	
Nickel	3.44		0.884	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.111	0.278	mg/kg dry	1	2631209	06/25/2024	06/26/2024	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 - Leonard 21-1614

FLR01@4

6/12/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406376-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.142	0.0990	mg/L	1	B4F1411	06/14/2024	06/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1407	06/14/2024	06/19/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.3 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1331	06/13/2024	06/14/2024	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	95.7 %	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 - Leonard 21-1614

FLR01@4

6/12/2024 12:05:00PM

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

Y406376-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.9 %	70-130				B4F13 31	06/13/2024	06/14/2024	
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.954	0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.634	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1335	06/13/2024	06/19/2024	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 - Leonard 21-1614

FLR01@4

6/12/2024 12:05:00PM

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

Y406376-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1335	06/13/2024	06/19/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.45	pH Units	1	B4F1419	06/14/2024	06/18/2024
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SAR by 20B Saturated Paste

SAR	0.782	0.0100	SAR	1	B4F1415	06/14/2024	06/18/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.232	0.00500	mmhos/cm	1	B4F1419	06/14/2024	06/18/2024
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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 Veryser

Project Number: [none]

Project: Chevron - Leonard 21-1614

FLR01@4

6/12/2024 12:05:00PM

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

Y406376-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.74	0.279	mg/kg	10	B4F1325	06/13/2024	06/17/2024
Barium	58.8	9.62	"	"	"	"	"
Cadmium	ND	0.0962	"	"	"	"	"
Copper	ND	9.62	"	"	"	"	"
Lead	9.79	0.962	"	"	"	"	"
Nickel	3.55	0.962	"	"	"	"	"
Selenium	ND	0.250	"	"	"	"	"
Silver	ND	0.0962	"	"	"	"	"
Zinc	ND	35.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.105	0.264	mg/kg dry	1	2631209	06/25/2024	06/26/2024	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 - Leonard 21-1614

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 B4F1331 - EPA 5030 (soil)										
Blank (B4F1331-BLK1)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
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	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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 - Leonard 21-1614

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 B4F1331 - EPA 5030 (soil)										
LCS (B4F1331-BS1)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100		94.1	70-130			
Naphthalene	0.0986	0.00380	"	0.100		98.6	70-130			
Toluene	0.0999	0.00200	"	0.100		99.9	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	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 - Leonard 21-1614

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 B4F1331 - EPA 5030 (soil)

Matrix Spike (B4F1331-MS1)		Source: Y406369-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130			
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Naphthalene	0.0839	0.00380	"	0.100	0.00138	82.5	70-130			
Toluene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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 - Leonard 21-1614

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 B4F1331 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1331-MSD1)		Source: Y406369-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.0824	0.00200	mg/kg	0.100	ND	82.4	70-130	12.5	20	
1,3,5-Trimethylbenzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	13.4	20	
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130	1.62	20	
Ethylbenzene	0.0783	0.00200	"	0.100	ND	78.3	70-130	6.93	20	
Naphthalene	0.0794	0.00380	"	0.100	0.00138	78.0	70-130	5.46	20	
Toluene	0.0864	0.00200	"	0.100	ND	86.4	70-130	4.57	20	
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130	6.24	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	7.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	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 - Leonard 21-1614

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 B4F1407 - EPA 3550B

Blank (B4F1407-BLK1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		80.8	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 - Leonard 21-1614

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 B4F1407 - EPA 3550B

LCS (B4F1407-BS1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	952	50.0	mg/kg	1000		95.2	70-130			
Residual Range Organics (C28-C40)	967	200	"	1000		96.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	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 - Leonard 21-1614

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 B4F1407 - EPA 3550B

Matrix Spike (B4F1407-MS1)		Source: Y406373-01			Prepared: 06/14/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.4	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 - Leonard 21-1614

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 B4F1407 - EPA 3550B

Matrix Spike Dup (B4F1407-MSD1)		Source: Y406373-01			Prepared: 06/14/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	11.1	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	9.28	35	
Surrogate: o-Terphenyl	43		"	49.8		86.1	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 - Leonard 21-1614

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 B4F1325 - EPA 3050B

Blank (B4F1325-BLK1)

Prepared: 06/13/2024 Analyzed: 06/17/2024

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 (B4F1325-BS1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Arsenic	4.91	0.290	mg/kg	5.00	98.1	80-120
Barium	511	10.0	"	500	102	80-120
Cadmium	5.10	0.100	"	5.00	102	80-120
Copper	49.0	10.0	"	50.0	98.0	80-120
Lead	5.24	1.00	"	5.00	105	80-120
Nickel	4.95	1.00	"	5.00	99.0	80-120
Selenium	8.95	0.260	"	9.50	94.2	80-120
Silver	5.11	0.100	"	5.00	102	80-120
Zinc	52.3	37.0	"	50.0	105	80-120

Matrix Spike (B4F1325-MS1)

Source: Y406374-01

Prepared: 06/13/2024 Analyzed: 06/17/2024

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 - Leonard 21-1614

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
Batch B4F1325 - EPA 3050B										
Matrix Spike (B4F1325-MS1)			Source: Y406374-01		Prepared: 06/13/2024 Analyzed: 06/17/2024					
Arsenic	7.27	0.245	mg/kg	4.22	2.68	109	75-125			
Barium	562	8.44	"	422	74.0	116	75-125			
Cadmium	4.84	0.0844	"	4.22	0.119	112	75-125			
Copper	56.6	8.44	"	42.2	7.69	116	75-125			
Lead	14.9	0.844	"	4.22	8.91	142	75-125			QM-07
Nickel	12.0	0.844	"	4.22	7.19	113	75-125			
Selenium	9.41	0.219	"	8.01	0.206	115	75-125			
Silver	4.96	0.0844	"	4.22	0.0271	117	75-125			
Zinc	78.5	31.2	"	42.2	30.5	114	75-125			
Matrix Spike Dup (B4F1325-MSD1)			Source: Y406374-01		Prepared: 06/13/2024 Analyzed: 06/17/2024					
Arsenic	7.71	0.270	mg/kg	4.66	2.68	108	75-125	5.94	20	
Barium	630	9.31	"	466	74.0	119	75-125	11.3	20	
Cadmium	5.45	0.0931	"	4.66	0.119	114	75-125	11.8	20	
Copper	60.6	9.31	"	46.6	7.69	114	75-125	6.69	20	
Lead	13.2	0.931	"	4.66	8.91	92.7	75-125	12.0	20	
Nickel	12.3	0.931	"	4.66	7.19	109	75-125	2.54	20	
Selenium	9.82	0.242	"	8.85	0.206	109	75-125	4.27	20	
Silver	5.46	0.0931	"	4.66	0.0271	117	75-125	9.69	20	
Zinc	81.6	34.5	"	46.6	30.5	110	75-125	3.94	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 - Leonard 21-1614

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 B4F1335 - EPA 3580

Blank (B4F1335-BLK1)

Prepared: 06/13/2024 Analyzed: 06/19/2024

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	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	190		"	200		95.4	60-130
Surrogate: Pyrene-d10	180		"	200		90.0	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130

LCS (B4F1335-BS1)

Prepared: 06/13/2024 Analyzed: 06/19/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		95.1	70-130
2-Methylnaphthalene	0.192	0.002	"	0.200		96.1	70-130
Acenaphthene	0.197	0.020	"	0.200		98.6	70-130
Anthracene	0.216	0.020	"	0.200		108	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 - Leonard 21-1614

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 B4F1335 - EPA 3580

LCS (B4F1335-BS1)

Prepared: 06/13/2024 Analyzed: 06/19/2024

Benzo (a) anthracene	0.195	0.005	mg/kg	0.200		97.6	70-130
Benzo (a) pyrene	0.181	0.020	"	0.200		90.7	70-130
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.223	0.020	"	0.200		111	70-130
Benzo (k) fluoranthene	0.203	0.020	"	0.200		102	70-130
Chrysene	0.193	0.020	"	0.200		96.5	70-130
Dibenz (a,h) anthracene	0.229	0.020	"	0.200		114	70-130
Fluoranthene	0.176	0.020	"	0.200		88.2	70-130
Fluorene	0.187	0.020	"	0.200		93.3	70-130
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130
Naphthalene	0.191	0.002	"	0.200		95.5	70-130
Phenanthrene	0.201	0.020	"	0.200		101	70-130
Pyrene	0.174	0.020	"	0.200		86.8	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130
Surrogate: Anthracene-d10	190		"	200		93.6	60-130
Surrogate: Pyrene-d10	170		"	200		84.9	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130

Matrix Spike (B4F1335-MS1)

Source: Y406339-01

Prepared: 06/13/2024 Analyzed: 06/19/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.001	101	70-130
2-Methylnaphthalene	0.208	0.002	"	0.200	0.0009	104	70-130
Acenaphthene	0.196	0.020	"	0.200	ND	98.0	70-130
Anthracene	0.188	0.020	"	0.200	0.0008	93.4	70-130
Benzo (a) anthracene	0.201	0.005	"	0.200	0.001	99.8	70-130
Benzo (a) pyrene	0.204	0.020	"	0.200	0.004	100	70-130
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.001	100	70-130
Benzo (g,h,i) perylene	0.229	0.020	"	0.200	ND	114	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 - Leonard 21-1614

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 B4F1335 - EPA 3580

Matrix Spike (B4F1335-MS1)		Source: Y406339-01			Prepared: 06/13/2024 Analyzed: 06/19/2024					
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.6	70-130			
Chrysene	0.210	0.020	"	0.200	0.001	104	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	0.001	117	70-130			
Fluoranthene	0.213	0.020	"	0.200	ND	107	70-130			
Fluorene	0.193	0.020	"	0.200	ND	96.7	70-130			
Indeno (1,2,3-cd) pyrene	0.234	0.020	"	0.200	ND	117	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.3	70-130			
Phenanthrene	0.194	0.020	"	0.200	ND	96.8	70-130			
Pyrene	0.194	0.020	"	0.200	0.0006	96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		90.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B4F1335-MSD1)		Source: Y406339-01			Prepared: 06/13/2024 Analyzed: 06/19/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.001	94.3	70-130	6.43	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	0.0009	98.8	70-130	4.80	20	
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130	0.273	20	
Anthracene	0.200	0.020	"	0.200	0.0008	99.7	70-130	6.52	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.001	101	70-130	1.52	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	0.004	91.1	70-130	9.37	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.001	101	70-130	0.684	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130	5.89	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	ND	87.0	70-130	11.4	20	
Chrysene	0.192	0.020	"	0.200	0.001	95.3	70-130	8.71	20	
Dibenz (a,h) anthracene	0.250	0.020	"	0.200	0.001	125	70-130	6.06	20	
Fluoranthene	0.197	0.020	"	0.200	ND	98.3	70-130	8.19	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 - Leonard 21-1614

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 B4F1335 - EPA 3580

Matrix Spike Dup (B4F1335-MSD1)		Source: Y406339-01			Prepared: 06/13/2024 Analyzed: 06/19/2024					
Fluorene	0.192	0.020	mg/kg	0.200	ND	95.9	70-130	0.867	20	
Indeno (1,2,3-cd) pyrene	0.249	0.020	"	0.200	ND	125	70-130	6.33	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.6	70-130	3.91	20	
Phenanthrene	0.203	0.020	"	0.200	ND	101	70-130	4.52	20	
Pyrene	0.189	0.020	"	0.200	0.0006	94.1	70-130	2.62	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	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 - Leonard 21-1614

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 B4F1411 - DTPA Sorbitol Preparation

Blank (B4F1411-BLK1)

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron ND 0.100 mg/L

Duplicate (B4F1411-DUP1)

Source: Y406372-03

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron 0.183 0.100 mg/L 0.200 8.77 50

Batch B4F1415 - Saturated Paste Metals

Blank (B4F1415-BLK1)

Prepared: 06/14/2024 Analyzed: 06/18/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F1415-DUP1)

Source: Y406369-01

Prepared: 06/14/2024 Analyzed: 06/18/2024

Calcium PPM 474 10.0 mg/L 465 2.03 50

SAR ND 0.0100 SAR 9.88 200

Magnesium PPM 277 10.0 mg/L 203 30.6 50

Sodium PPM 1190 10.0 " 1020 15.9 50

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 - Leonard 21-1614

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1419 - Saturated Paste pH/EC										
Blank (B4F1419-BLK1)					Prepared: 06/14/2024 Analyzed: 06/19/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1419-DUP1)					Source: Y406369-01 Prepared: 06/14/2024 Analyzed: 06/18/2024					
Specific Conductance (EC)	6.73	0.00500	mmhos/cm		5.82			14.6	25	
pH	8.23		pH Units		8.16			0.854	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 - Leonard 21-1614

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 2631209 - SW846 3060A										
BLANK (1205771139-BLK)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	ND	0.293	mg/kg				-			U
LCS (1205771140-BKS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	3.71	0.371	mg/kg	3.71		99.9	80-120			
DUP (1205771141 D)					Source: Y406376-01 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	ND	0.274	mg/kg dry		<0.110		0-50	N/A	50	U
MS (1205771142 S)					Source: Y406376-01 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	1.65	0.274	mg/kg dry	2.74	<0.110	57.5	75-125			
DUP (1205771143 D)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	0.140	0.299	mg/kg dry		<0.120		0-50	N/A	50	hJ
MS (1205771144 S)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	2.39	0.299	mg/kg dry	2.99	<0.120	76.4	75-125			h
ILCS (1205771145-ILCS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	7.99	0.381	mg/kg	7.80		102	80-120			

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 - Leonard 21-1614

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.

hJ [Undefined]

h Preparation or preservation holding time was exceeded

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.

Origins Laboratory, Inc.



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