



Facility Closure Investigation and Environmental Summary

Long C20-17 Wellhead

ECMC Remediation Project #34794

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

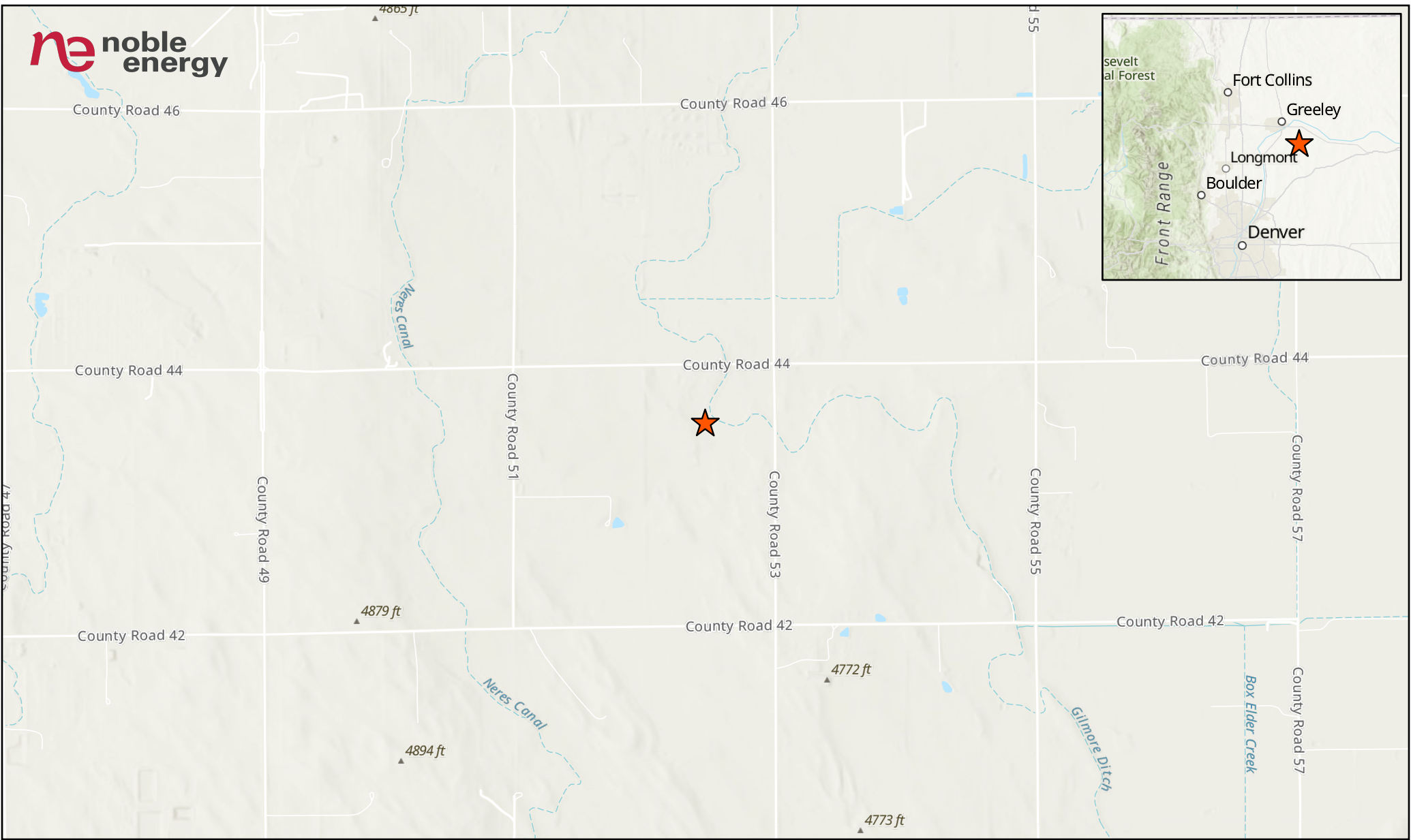
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

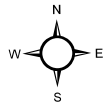
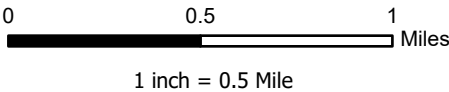
Attachment C: Laboratory Analytical Reports

FIGURES

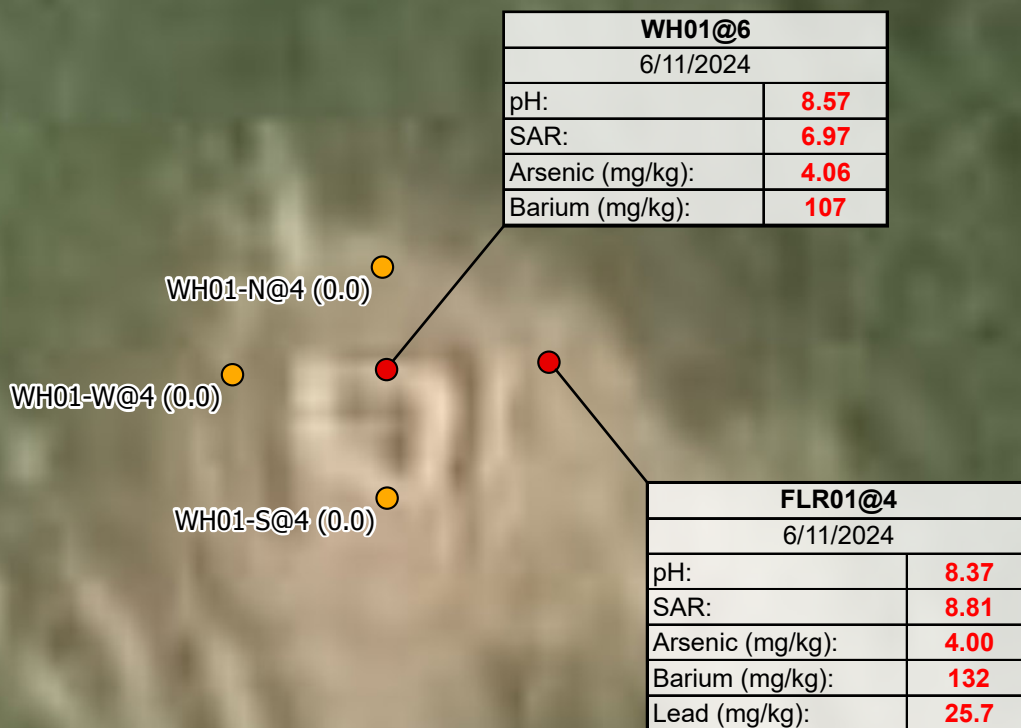


LEGEND

 Site Location



Project No: 024-260	<p>LONG C20-17 WELLHEAD GENERAL LOCATION MAP NOBLE ENERGY NW 1/4 NE 1/4 SECTION 20 T4N R64W, 6TH PM WELD COUNTY, COLORADO</p>	 <p>1843 Sunlight Dr. Longmont, CO 80504 303.378.4036</p>	Figure
Map By: JW			1
Date: 07/25/2024			



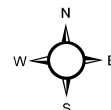
LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 FLR: FLOWLINE RISER SAMPLE
 SAR: SODIUM ADSORPTION RATIO
RED: ABOVE ECMC TABLE 915-1 GWSSL

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: 024-260

Map By: JW

Date: 07/24/2024

LONG C20-17 WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 NW 1/4 NE 1/4 SECTION 20
 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
LONG C20-17 WELLHEAD, WELD COUNTY, COLORADO
REM # 34794

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	6/11/2024	6	40.301978	-104.570149	0.0
FLR01@4	6/11/2024	4	40.301979	-104.570119	0.0
WH01-S@4	6/11/2024	4	40.301960	-104.570149	0.0
WH01-W@4	6/11/2024	4	40.301978	-104.570178	0.0
WH01-N@4	6/11/2024	4	40.301993	-104.570150	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
LONG C20-17 WELLHEAD, WELD COUNTY, COLORADO
REM # 34794

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	6/11/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	6/11/2024	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
LONG C20-17 WELLHEAD, WELD COUNTY, COLORADO
REM # 34794

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	6/11/2024	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	6/11/2024	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
LONG C20-17 WELLHEAD, WELD COUNTY, COLORADO
REM # 34794

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	6/11/2024	6	8.57	3.24	6.97	0.741
FLR01@4	6/11/2024	4	8.37	1.99	8.81	0.505

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
LONG C20-17 WELLHEAD, WELD COUNTY, COLORADO
REM # 34794

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	6/11/2024	6	4.06	107	0.170	<0.177*	<8.69	10.1	10.1	<0.226	<0.0869	32.9
FLR01@4	6/11/2024	4	4.00	132	0.181	<0.159*	<8.71	25.7	9.64	<0.226	<0.0871	34.5

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 reporting or minimum detection limit in excess of SSL
- ft-bgs - feet below ground surface
- mg/kg - milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

Long C20-17 Wellhead Photographic Log



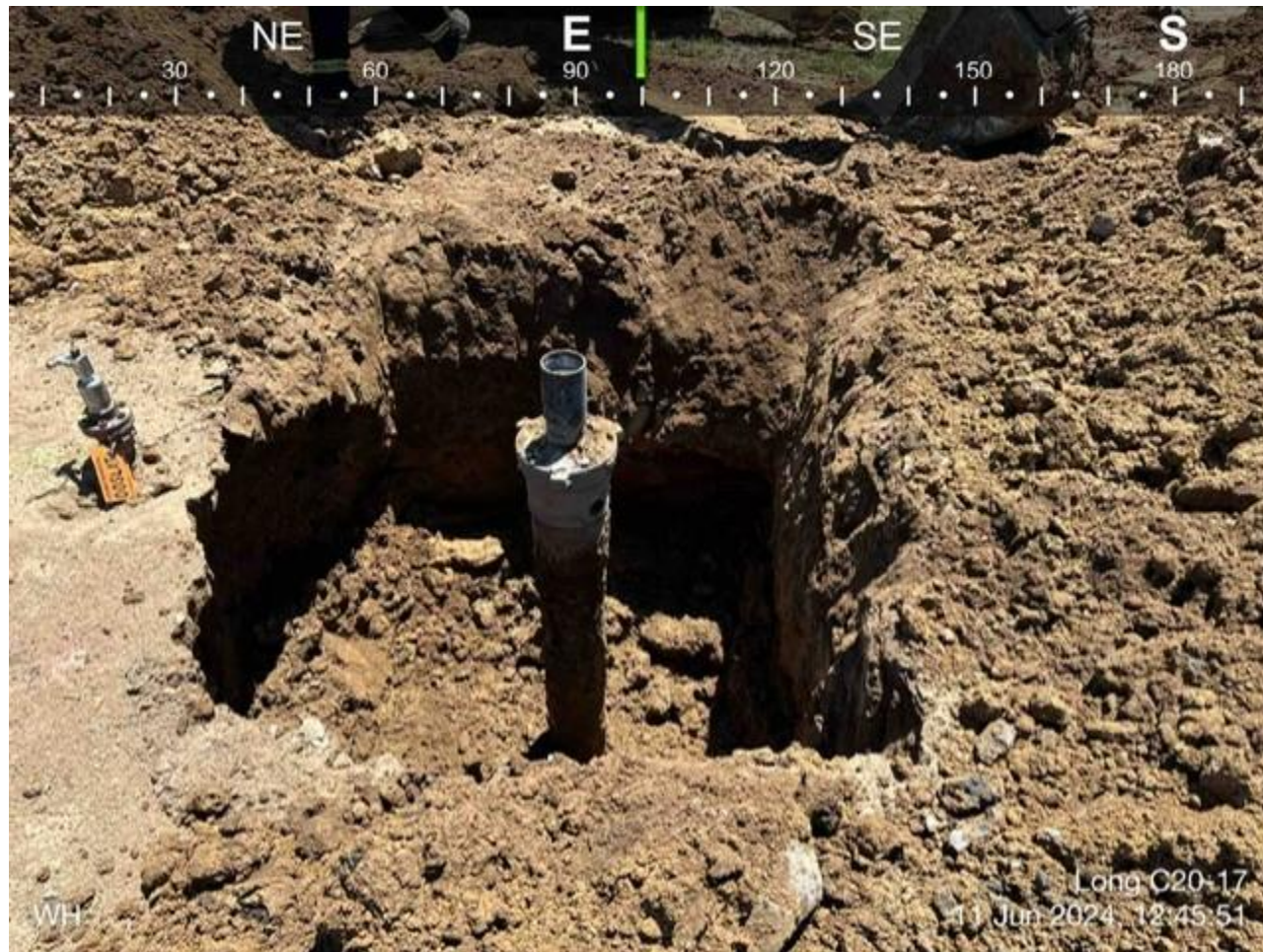
Long C20-17 Wellhead Photographic Log



Long C20-17 Wellhead Photographic Log



Long C20-17 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: Long C20-17, 286524		Date: 6/11/2024						Remediation Project #: 34794
Associated Wells: NA		Age of Site: 9/14/2006-spud date						Number of Photos Attached: 4
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.301980 / -104.570130							Estimated Facility Size (acres): ~0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Overall good								
USCS Soil Type: Clayey Sand (SC)					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	05-123-24217							
Age	9/14/2006-spud date							
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:								
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: 0.0 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 26, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Long C20-17

Project Number - [none]

Attached are your analytical results for Chevron - Long C20-17 received by Origins Laboratory, Inc. June 11, 2024. This project is associated with Origins project number Y406320-01.

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 - Long C20-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y406320-01	Soil	June 11, 2024 12:00	06/11/2024 16:40
FLR01@4	Y406320-02	Soil	June 11, 2024 12:05	06/11/2024 16:40

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 - Long C20-17

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

ORIGINS
LABORATORY, INC

Bill to Chevron
(Dusty Smith)

www.originslaboratory.com

page 1 of 1

Client: Entrada

Address: _____

Project Manager: Chelsea Veryser

Project Name: Long C20-17

Project Number: _____

Telephone Number: 303.315.8703

Samples Collected By: Tan Chole

Email Address: Entrada Distribution CC: RS415427@chevron.com

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	1		2
W401 @ 6	6/11/24	1200	2	X							X	915		1
FLR01 @ 4		1205	1											2
W401-N @ 4		1210	1											3
W401-N @ 4		1215	1											4
W401-5 @ 4		1220	1											5
														6
														7
														8
														9
														10

Temp Received: 21.9°C

Date Results Needed

Relinquished By: [Signature]

Date: 6/11/24

Time: 1430

Received By: [Signature]

Date: 06/11/24

Time: 1515

Turnaround Time:
☐ Some Day
☐ 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 - Long C20-17

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

Sample Receipt Checklist

Origins Work Order: 114 06320 Client: Entrada
Client Project ID: Long C20-17

Checklist Completed by: JUP/CHD Shipped Via: tw
Date/time completed: 6/11/24 (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 21.9 °C / _____ °C / _____ °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⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontrasted 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) CHD Date/Time Reviewed 6/11/24

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 - Long C20-17

WH01@6

6/11/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406320-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.741	0.0987	mg/L	1	B4F1215	06/12/2024	06/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1202	06/12/2024	06/17/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	78.8 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1205	06/12/2024	06/13/2024	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	104 %	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 - Long C20-17

WH01@6

6/11/2024 12:00:00PM

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

Y406320-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130				B4F12 05	06/12/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	104 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.21	0.499	meq/L	10	[CALC]	06/12/2024	06/13/2024	
Magnesium	8.38	0.823	"	"	"	"	"	
Sodium	18.8	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1330	06/13/2024	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 - Long C20-17

WH01@6

6/11/2024 12:00:00PM

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

Y406320-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1330	06/13/2024	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	112 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.57	pH Units	1	B4F1223	06/12/2024	06/13/2024
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SAR by 20B Saturated Paste

SAR	6.97	0.0100	SAR	1	B4F1211	06/12/2024	06/13/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.24	0.00500	mmhos/cm	1	B4F1223	06/12/2024	06/13/2024
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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 - Long C20-17

WH01@6

6/11/2024 12:00:00PM

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

Y406320-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.06	0.252	mg/kg	10	B4F1227	06/12/2024	06/17/2024
Barium	107	8.69	"	"	"	"	"
Cadmium	0.170	0.0869	"	"	"	"	"
Copper	ND	8.69	"	"	"	"	"
Lead	10.1	0.869	"	"	"	"	"
Nickel	10.1	0.869	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0869	"	"	"	"	"
Zinc	32.9	32.2	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.177	0.442	mg/kg dry	1	2631127	06/24/2024	06/25/2024	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 - Long C20-17

FLR01@4

6/11/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406320-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.505	0.0987	mg/L	1	B4F1215	06/12/2024	06/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1202	06/12/2024	06/17/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	77.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1205	06/12/2024	06/13/2024	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	106 %	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 - Long C20-17

FLR01@4

6/11/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406320-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.5 %	70-130				B4F12 05	06/12/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	104 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	06/12/2024	06/13/2024	
Magnesium	2.46	0.823	"	"	"	"	"	
Sodium	13.3	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1330	06/13/2024	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 - Long C20-17

FLR01@4

6/11/2024 12:05:00PM

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

Y406320-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1330	06/13/2024	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	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B4F1223	06/12/2024	06/13/2024
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SAR by 20B Saturated Paste

SAR	8.81	0.0100	SAR	1	B4F1211	06/12/2024	06/13/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.99	0.00500	mmhos/cm	1	B4F1223	06/12/2024	06/13/2024
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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 - Long C20-17

FLR01@4

6/11/2024 12:05:00PM

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

Y406320-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.00	0.253	mg/kg	10	B4F1227	06/12/2024	06/17/2024
Barium	132	8.71	"	"	"	"	"
Cadmium	0.181	0.0871	"	"	"	"	"
Copper	ND	8.71	"	"	"	"	"
Lead	25.7	0.871	"	"	"	"	"
Nickel	9.64	0.871	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0871	"	"	"	"	"
Zinc	34.5	32.2	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.159	0.398	mg/kg dry	1	2631127	06/24/2024	06/25/2024	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 - Long C20-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1202 - EPA 3550B										
Blank (B4F1202-BLK1)					Prepared: 06/12/2024 Analyzed: 06/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		80.6	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 - Long C20-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1202 - EPA 3550B

LCS (B4F1202-BS1)

Prepared: 06/12/2024 Analyzed: 06/17/2024

Diesel (C10-C28)	854	50.0	mg/kg	1000		85.4	70-130			
Residual Range Organics (C28-C40)	922	200	"	1000		92.2	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 - Long C20-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1202 - EPA 3550B

Matrix Spike (B4F1202-MS1)		Source: Y406302-02			Prepared: 06/12/2024 Analyzed: 06/17/2024					
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130			
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.5	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Long C20-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1202 - EPA 3550B

Matrix Spike Dup (B4F1202-MSD1)		Source: Y406302-02			Prepared: 06/12/2024 Analyzed: 06/17/2024					
Diesel (C10-C28)	874	50.0	mg/kg	1000	ND	87.4	70-130	3.32	35	
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130	1.98	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Long C20-17

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1205 - EPA 5030 (soil)										
Blank (B4F1205-BLK1)					Prepared: 06/12/2024 Analyzed: 06/13/2024					
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	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 - Long C20-17

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1205 - EPA 5030 (soil)

LCS (B4F1205-BS1)

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

1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100		98.3	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100		96.9	70-130			
Benzene	0.0912	0.00200	"	0.100		91.2	70-130			
Ethylbenzene	0.0931	0.00200	"	0.100		93.1	70-130			
Naphthalene	0.0999	0.00380	"	0.100		99.9	70-130			
Toluene	0.0929	0.00200	"	0.100		92.9	70-130			
o-Xylene	0.0973	0.00200	"	0.100		97.3	70-130			
m,p-Xylene	0.184	0.00400	"	0.200		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Long C20-17

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1205 - EPA 5030 (soil)										
Matrix Spike (B4F1205-MS1)		Source: Y406290-01			Prepared: 06/12/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	0.0951	0.00200	mg/kg	0.100	ND	95.1	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
Ethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130			
o-Xylene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 - Long C20-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1205 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1205-MSD1)		Source: Y406290-01			Prepared: 06/12/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	0.0930	0.00200	mg/kg	0.100	ND	93.0	70-130	2.21	20	
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130	3.47	20	
Benzene	0.0877	0.00200	"	0.100	ND	87.7	70-130	3.76	20	
Ethylbenzene	0.0899	0.00200	"	0.100	ND	89.9	70-130	2.16	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	0.868	20	
Toluene	0.0875	0.00200	"	0.100	ND	87.5	70-130	4.27	20	
o-Xylene	0.0939	0.00200	"	0.100	ND	93.9	70-130	1.52	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.4	70-130	2.05	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	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 - Long C20-17

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1227 - EPA 3050B

Blank (B4F1227-BLK1)

Prepared: 06/12/2024 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 (B4F1227-BS1)

Prepared: 06/12/2024 Analyzed: 06/17/2024

Arsenic	5.58	0.290	mg/kg	5.00	112	80-120
Barium	537	10.0	"	500	107	80-120
Cadmium	5.20	0.100	"	5.00	104	80-120
Copper	55.3	10.0	"	50.0	111	80-120
Lead	5.24	1.00	"	5.00	105	80-120
Nickel	5.87	1.00	"	5.00	117	80-120
Selenium	9.88	0.260	"	9.50	104	80-120
Silver	5.33	0.100	"	5.00	107	80-120
Zinc	55.4	37.0	"	50.0	111	80-120

Matrix Spike (B4F1227-MS1)

Source: Y406319-01

Prepared: 06/12/2024 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 - Long C20-17

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1227 - EPA 3050B										
Matrix Spike (B4F1227-MS1)			Source: Y406319-01		Prepared: 06/12/2024 Analyzed: 06/17/2024					
Arsenic	7.92	0.270	mg/kg	4.65	2.93	107	75-125			
Barium	699	9.29	"	465	129	123	75-125			
Cadmium	5.55	0.0929	"	4.65	0.160	116	75-125			
Copper	62.1	9.29	"	46.5	9.01	114	75-125			
Lead	14.6	0.929	"	4.65	8.77	126	75-125			QM-07
Nickel	11.9	0.929	"	4.65	7.32	98.1	75-125			
Selenium	9.10	0.242	"	8.83	0.232	100	75-125			
Silver	5.46	0.0929	"	4.65	0.0260	117	75-125			
Zinc	80.6	34.4	"	46.5	32.4	104	75-125			
Matrix Spike Dup (B4F1227-MSD1)			Source: Y406319-01		Prepared: 06/12/2024 Analyzed: 06/17/2024					
Arsenic	7.60	0.254	mg/kg	4.37	2.93	107	75-125	4.16	20	
Barium	674	8.75	"	437	129	125	75-125	3.59	20	
Cadmium	5.29	0.0875	"	4.37	0.160	117	75-125	4.88	20	
Copper	60.8	8.75	"	43.7	9.01	118	75-125	2.13	20	
Lead	12.7	0.875	"	4.37	8.77	88.9	75-125	14.4	20	
Nickel	11.7	0.875	"	4.37	7.32	99.8	75-125	1.65	20	
Selenium	8.51	0.227	"	8.31	0.232	99.6	75-125	6.71	20	
Silver	5.27	0.0875	"	4.37	0.0260	120	75-125	3.44	20	
Zinc	78.1	32.4	"	43.7	32.4	105	75-125	3.07	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 - Long C20-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1330 - EPA 3580

Blank (B4F1330-BLK1)

Prepared: 06/13/2024 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	210		ug/kg	200	107	60-130
Surrogate: Anthracene-d10	180		"	200	90.0	60-130
Surrogate: Pyrene-d10	190		"	200	94.6	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	107	60-130

LCS (B4F1330-BS1)

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

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200	111	70-130
2-Methylnaphthalene	0.246	0.002	"	0.200	123	70-130
Acenaphthene	0.221	0.020	"	0.200	110	70-130
Anthracene	0.202	0.020	"	0.200	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 - Long C20-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1330 - EPA 3580

LCS (B4F1330-BS1)

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

Benzo (a) anthracene	0.241	0.005	mg/kg	0.200		120	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200		113	70-130
Benzo (b) fluoranthene	0.246	0.020	"	0.200		123	70-130
Benzo (g,h,i) perylene	0.248	0.020	"	0.200		124	70-130
Benzo (k) fluoranthene	0.231	0.020	"	0.200		115	70-130
Chrysene	0.225	0.020	"	0.200		112	70-130
Dibenz (a,h) anthracene	0.249	0.020	"	0.200		125	70-130
Fluoranthene	0.242	0.020	"	0.200		121	70-130
Fluorene	0.203	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.255	0.020	"	0.200		128	70-130
Naphthalene	0.222	0.002	"	0.200		111	70-130
Phenanthrene	0.232	0.020	"	0.200		116	70-130
Pyrene	0.230	0.020	"	0.200		115	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		95.1	60-130
Surrogate: Anthracene-d10	190		"	200		95.0	60-130
Surrogate: Pyrene-d10	200		"	200		99.6	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130

Matrix Spike (B4F1330-MS1)

Source: Y406319-01

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

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.001	100	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200	0.0009	105	70-130
Acenaphthene	0.193	0.020	"	0.200	0.003	95.2	70-130
Anthracene	0.186	0.020	"	0.200	ND	92.9	70-130
Benzo (a) anthracene	0.178	0.005	"	0.200	0.003	87.5	70-130
Benzo (a) pyrene	0.219	0.020	"	0.200	0.006	106	70-130
Benzo (b) fluoranthene	0.238	0.020	"	0.200	0.007	115	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200	0.008	110	70-130

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 - Long C20-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1330 - EPA 3580

Matrix Spike (B4F1330-MS1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
Benzo (k) fluoranthene	0.244	0.020	mg/kg	0.200	0.006	119	70-130			
Chrysene	0.193	0.020	"	0.200	0.005	94.3	70-130			
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.011	112	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.002	105	70-130			
Fluorene	0.192	0.020	"	0.200	0.001	95.3	70-130			
Indeno (1,2,3-cd) pyrene	0.242	0.020	"	0.200	0.011	116	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.002	94.1	70-130			
Pyrene	0.183	0.020	"	0.200	0.003	90.2	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		111	60-130			
Surrogate: Anthracene-d10	180		"	200		90.6	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4F1330-MSD1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.001	96.8	70-130	3.53	20	
2-Methylnaphthalene	0.214	0.002	"	0.200	0.0009	106	70-130	1.58	20	
Acenaphthene	0.179	0.020	"	0.200	0.003	88.0	70-130	7.73	20	
Anthracene	0.201	0.020	"	0.200	ND	100	70-130	7.82	20	
Benzo (a) anthracene	0.210	0.005	"	0.200	0.003	103	70-130	16.1	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	0.006	99.1	70-130	6.79	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.007	104	70-130	10.5	20	
Benzo (g,h,i) perylene	0.240	0.020	"	0.200	0.008	116	70-130	5.40	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.006	97.5	70-130	19.3	20	
Chrysene	0.191	0.020	"	0.200	0.005	93.2	70-130	1.11	20	
Dibenz (a,h) anthracene	0.253	0.020	"	0.200	0.011	121	70-130	7.63	20	
Fluoranthene	0.206	0.020	"	0.200	0.002	102	70-130	2.86	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 - Long C20-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1330 - EPA 3580

Matrix Spike Dup (B4F1330-MSD1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
Fluorene	0.185	0.020	mg/kg	0.200	0.001	91.8	70-130	3.70	20	
Indeno (1,2,3-cd) pyrene	0.246	0.020	"	0.200	0.011	117	70-130	1.35	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.5	70-130	2.28	20	
Phenanthrene	0.193	0.020	"	0.200	0.002	95.6	70-130	1.63	20	
Pyrene	0.189	0.020	"	0.200	0.003	93.0	70-130	2.99	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	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 - Long C20-17

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1211 - Saturated Paste Metals

Blank (B4F1211-BLK1)

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

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

Duplicate (B4F1211-DUP1)

Source: Y406292-01

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

SAR	ND	0.0100	SAR	2.34		200
Calcium PPM	23.7	10.0	mg/L	24.2	2.13	50
Magnesium PPM	4.88	10.0	"	5.25	7.31	50
Sodium PPM	46.3	10.0	"	48.7	5.05	50

Batch B4F1215 - DTPA Sorbitol Preparation

Blank (B4F1215-BLK1)

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

Boron	ND	0.100	mg/L
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Duplicate (B4F1215-DUP1)

Source: Y406303-03

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

Boron	0.370	0.101	mg/L	0.361	2.35	50
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Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Long C20-17

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1223 - Saturated Paste pH/EC										
Blank (B4F1223-BLK1)					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1223-DUP1)					Source: Y406292-01 Prepared: 06/12/2024 Analyzed: 06/13/2024					
pH	8.46		pH Units		8.44			0.237	25	
Specific Conductance (EC)	0.531	0.00500	mmhos/cm		0.551			3.84	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 - Long C20-17

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 2631127 - SW846 3060A										
BLANK (1205770940-BLK)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205770941-BKS)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	3.28	0.332	mg/kg	3.32		98.8	80-120			
DUP (1205770942 D)					Source: 671520001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.355	mg/kg dry		<0.142		0-50	N/A	50	U
MS (1205770943 S)					Source: 671520001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	2.01	0.355	mg/kg dry	3.55	<0.142	54.2	75-125			
DUP (1205770944 D)					Source: 671535001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.341	mg/kg dry		<0.136		0-50	N/A	50	U
MS (1205770945 S)					Source: 671535001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	2.16	0.341	mg/kg dry	3.41	<0.136	60.9	75-125			
ILCS (1205770946-ILCS)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	7.93	0.379	mg/kg	7.82		101	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 - Long C20-17

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.

Origins Laboratory, Inc.



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