



Facility Closure Investigation and Environmental Summary

State 16-1214 Wellhead

ECMC Remediation Project #34127

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

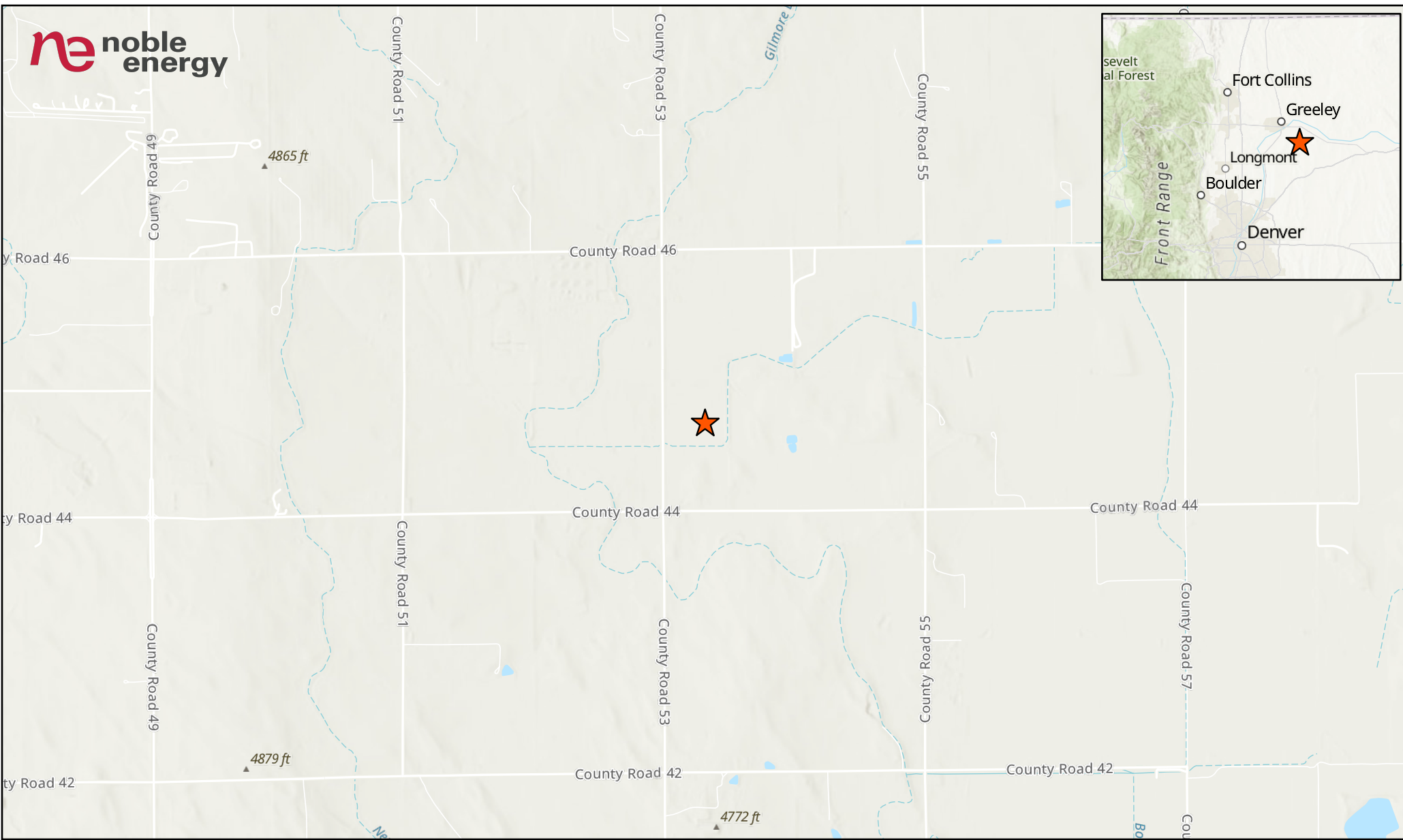
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

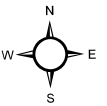
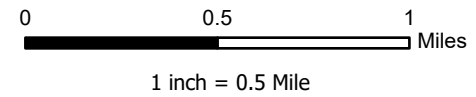
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

Site Location



Project No: 024-216

Map By: JW

Date: 07/11/2024

**STATE 16-1214 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
NW 1/4 SW 1/4 SECTION 16
T4N R64W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure

1

WH01@6	
5/30/2024	
Arsenic (mg/kg):	3.29
Barium (mg/kg):	84.5

WH01-N@4 (0.0)

WH01-W@4 (0.0)

WH01-E@4 (44.8)

WH01-S@4 (0.0)

GW01	
5/30/2024	
TDS (mg/l):	1,360
Chloride Ion (mg/l):	256
Sulfate Ion (mg/l):	317

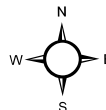
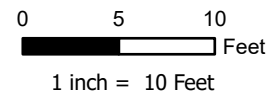
LABEL LEGEND

XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 TDS: TOTAL DISSOLVED SOLIDS
RED: ABOVE ECMC TABLE 915-1 GWSSL
GREEN: ABOVE ECMC TABLE 915-1 GWSSL,
 REPRESENTATIVE OF NATURAL SITE
 CONCENTRATIONS

Legend

- Soil Sample
- Screening Location
- ▲ Groundwater Sample

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



Project No: 024-216

Map By: JW

Date: 07/11/2024

**STATE 16-1214 WELLHEAD
 SOIL SAMPLE AND FIELD SCREENING LOCATIONS**
 NOBLE ENERGY
 NW 1/4 SW 1/4 SECTION 16
 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
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	5/30/2024	6	40.310087	-104.562054	0.0
WH01-N@4	5/30/2024	4	40.310119	-104.562056	0.0
WH01-W@4	5/30/2024	4	40.310087	-104.562090	0.0
WH01-E@4	5/30/2024	4	40.310087	-104.562023	44.8
WH01-S@4	5/30/2024	4	40.310063	-104.562053	0.0
GW01	5/30/2024	5.5	40.310079	-104.562065	NM

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

NM - Not measured

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

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	5/30/2024	6	<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
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

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	5/30/2024	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

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
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

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	5/30/2024	6	8.21	0.666	3.37	0.455

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
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

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	5/30/2024	6	3.29	84.5	0.150	<0.334*	<9.47	6.46	6.92	<0.246	<0.0947	<35.0

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

TABLE 6
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)
ECMC Table 915-1 Limits			5.0	560	700	1400	140	67	67
GW01	5/30/2024	~5.5	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	4.79

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
ft-bgs - feet below ground surface
µg/L - micrograms per liter

TABLE 7
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
STATE 16-1214 WELLHEAD, WELD COUNTY, COLORADO
REM # 34127

Sample ID	Sample Date	Depth (ft-bgs)	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits			<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
GW01	5/30/2024	~5.5	1360	256	317

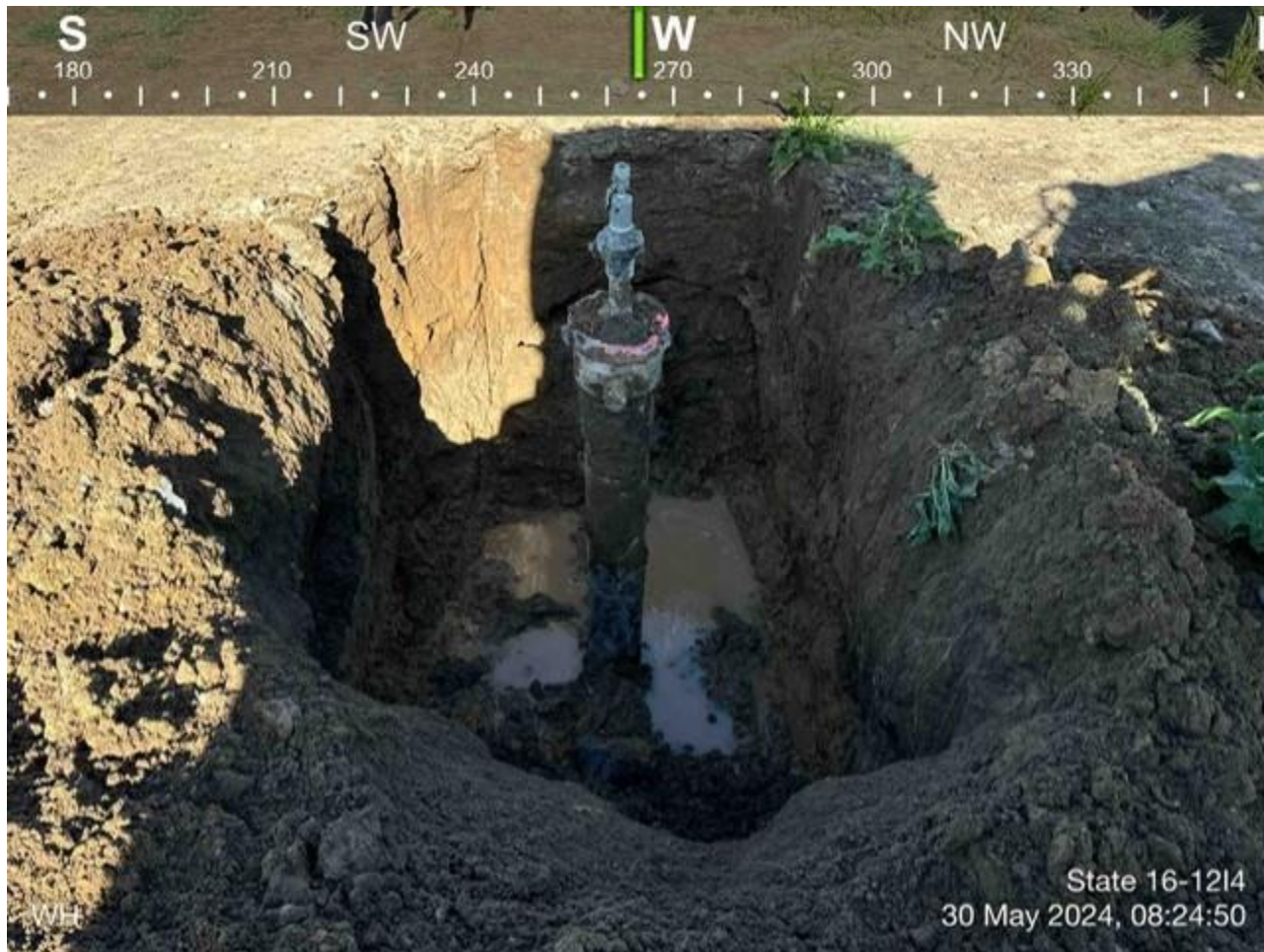
1. **GREEN** - Above ECMC Table 915-1 Standards, but representative of natural site concentrations

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

ft-bgs - feet below ground surface

mg/L - milligrams per liter

State 16-1214 Wellhead Photographic Log



State 16-1214 Wellhead Photographic Log



State 16-1214 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: State 16-1214, 250093		Date: 05/30/2024				Remediation Project #: 34127			
Associated Wells:		Age of Site: 02/07/1994-spud date				Number of Photos Attached: 3			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.310090 / -104.562030							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Overall									
USCS Soil Type: Clayey Sand (SC)					Estimated Depth to Groundwater: ~5.5 feet below ground surface				
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	05-123-17896								
Age	02/07/1994-spud date								
Condition of surface around wellhead	Good								
PID Readings	0.0 to 44.8 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 ppm								
Sample taken? Location/Sample ID#	WH01@6								
Photo Number(s)	1-3								
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: 44.8 ppm				Total number of samples submitted to lab for analysis: 1					
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? No <input checked="" type="checkbox"/> Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater: ~5.5 feet below ground surface				Was remedial groundwater removal conducted? Yes <input checked="" type="checkbox"/> No					
Date Groundwater was encountered: 05/30/2024				Commencement date of removal: NA					
Sheen on groundwater? Yes <input checked="" type="checkbox"/> No				Volume of groundwater removed prior to sampling: NA					
Free product observed? Yes <input checked="" type="checkbox"/> No				Volume of groundwater removed post sampling: NA					
Total number of samples collected: 1				Total Volume of groundwater removed: NA					
Total number of samples submitted to lab for analysis: 1									

**ATTACHMENT C
LABORATORY ANALYTICAL REPORTS**



July 01, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - State 16-1214

Project Number - [none]

Attached are your analytical results for Chevron - State 16-1214 received by Origins Laboratory, Inc. May 31, 2024. This project is associated with Origins project number Y405877-01.

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 - State 16-1214

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405877-01	Soil	May 30, 2024 8:00	05/31/2024 11:16
GW01	Y405877-06	Water	May 30, 2024 8:25	05/31/2024 11:16

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 - State 16-1214

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4405977

Client: Entrada
 Client Project ID: State 16-1214

Checklist Completed by: JSH/W
 Date/time completed: 5/31/24

Shipped Via: HD
(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 2.0°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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/			NC
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) JSH

Date/Time Reviewed 6/3/24

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 - State 16-1214

WH01@6
 5/30/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405877-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.455	0.0990	mg/L	1	B4F0308	ACC	06/03/2024	06/04/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0328	ADM	06/03/2024	06/05/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	Ua

Surrogate: o-Terphenyl	87.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0201	HK	06/02/2024	06/02/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Benzene	ND	0.00200	"	"	"	HK	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Toluene	ND	0.00200	"	"	"	HK	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

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 - State 16-1214

WH01@6
 5/30/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405877-01 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	1.33	0.499	meq/L	10	[CALC]	ACC	06/03/2024	06/04/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	3.16	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E3130	agilent	05/31/2024	06/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	agilent	"	"	Ua
Anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	agilent	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Chrysene	ND	0.020	"	"	"	agilent	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluorene	ND	0.020	"	"	"	agilent	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Naphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Pyrene	ND	0.020	"	"	"	agilent	"	"	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 - State 16-1214

WH01@6
 5/30/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405877-01 (Soil)
Origins Laboratory, Inc.

PAH by EPA 8270E

Surrogate: Fluorene-d10	94.9 %	60-130			B4E31 30		05/31/2024	06/09/2024	
Surrogate: Anthracene-d10	96.2 %	60-130			"		"	"	
Surrogate: Pyrene-d10	97.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	104 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.21		pH Units	1	B4F0312	GCG	06/03/2024	06/04/2024	
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SAR by 20B Saturated Paste

SAR	3.37	0.0100	SAR	1	B4F0305	ACC	06/03/2024	06/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.666	0.00500	mmhos/cm	1	B4F0312	GCG	06/03/2024	06/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.29	0.275	mg/kg	10	B4E3128	JAH	06/03/2024	06/05/2024	
Barium	84.5	9.47	"	"	"	JAH	"	"	
Cadmium	0.150	0.0947	"	"	"	JAH	"	"	
Copper	ND	9.47	"	"	"	JAH	"	"	
Lead	6.46	0.947	"	"	"	JAH	"	"	
Nickel	6.92	0.947	"	"	"	JAH	"	"	

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 - State 16-1214

WH01@6
 5/30/2024 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405877-01 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Selenium	ND	0.246	mg/kg	10	B4E3128	JAH	06/03/2024	06/05/2024	
Silver	ND	0.0947	"	"	"	JAH	"	"	
Zinc	ND	35.0	"	"	"	JAH	"	"	

GEL Laboratories, LLC

Total Metals 7196A

Hexavalent Chromium	ND	0.334	mg/kg dry	1	2623046	HH2	06/07/2024	06/10/2024	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 - State 16-1214

GW01

5/30/2024 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405877-06 (Water)
Origins Laboratory, Inc.

Anions by IC 300.0

Chloride	256	31.2	mg/L	125	B4F0315	DLT	06/03/2024	06/03/2024	
Sulfate	317	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F0202	JSM	06/02/2024	06/02/2024	Ua
1,3,5-Trimethylbenzene	4.79	2.00	"	"	"	JSM	"	"	
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1360	5.00	mg/L	1	B4F0323	KRM	06/03/2024	06/05/2024	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0201 - EPA 5030 (soil)

Blank (B4F0201-BLK1)

Prepared: 06/02/2024 Analyzed: 06/02/2024

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	95.5		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0201 - EPA 5030 (soil)

LCS (B4F0201-BS1)

Prepared: 06/02/2024 Analyzed: 06/02/2024

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0201 - EPA 5030 (soil)

Matrix Spike (B4F0201-MS1)	Source: Y405817-02			Prepared: 06/02/2024 Analyzed: 06/02/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.100	0.00380	"	0.100	0.00142	98.8	70-130			
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0201 - EPA 5030 (soil)

Matrix Spike Dup (B4F0201-MSD1)	Source: Y405817-02			Prepared: 06/02/2024 Analyzed: 06/02/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	5.56	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	5.42	20	
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	6.18	20	
Ethylbenzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	6.99	20	
Naphthalene	0.0989	0.00380	"	0.100	0.00142	97.5	70-130	1.35	20	
Toluene	0.0934	0.00200	"	0.100	ND	93.4	70-130	4.99	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	5.07	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.2	70-130	6.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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Entrada Consulting Group
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0202 - EPA 5030B (Water)

Blank (B4F0202-BLK1)

Prepared: 06/02/2024 Analyzed: 06/02/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0202 - EPA 5030B (Water)

LCS (B4F0202-BS1)

Prepared: 06/02/2024 Analyzed: 06/02/2024

1,2,4-Trimethylbenzene	47.8	2.00	ug/L	50.0		95.7	70-130			
1,3,5-Trimethylbenzene	48.1	2.00	"	50.0		96.2	70-130			
Benzene	50.8	1.00	"	50.0		102	70-130			
Ethylbenzene	49.9	1.00	"	50.0		99.8	70-130			
m,p-Xylene	98.2	2.00	"	100		98.2	70-130			
Naphthalene	46.8	2.00	"	50.0		93.6	70-130			
o-Xylene	47.6	1.00	"	50.0		95.1	70-130			
Toluene	48.3	1.00	"	50.0		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

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 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0202 - EPA 5030B (Water)

Matrix Spike (B4F0202-MS1)	Source: Y405862-05			Prepared: 06/02/2024 Analyzed: 06/03/2024						
1,2,4-Trimethylbenzene	48.1	2.00	ug/L	50.0	1.59	93.0	70-130			
1,3,5-Trimethylbenzene	48.5	2.00	"	50.0	ND	96.9	70-130			
Benzene	61.7	1.00	"	50.0	2.33	119	70-130			
Ethylbenzene	60.7	1.00	"	50.0	1.72	118	70-130			
m,p-Xylene	104	2.00	"	100	1.23	102	70-130			
Naphthalene	63.5	2.00	"	50.0	3.00	121	70-130			
o-Xylene	50.9	1.00	"	50.0	0.220	101	70-130			
Toluene	51.7	1.00	"	50.0	0.200	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0202 - EPA 5030B (Water)

Matrix Spike Dup (B4F0202-MSD1)	Source: Y405862-05			Prepared: 06/02/2024 Analyzed: 06/03/2024						
1,2,4-Trimethylbenzene	46.9	2.00	ug/L	50.0	1.59	90.7	70-130	2.44	20	
1,3,5-Trimethylbenzene	47.4	2.00	"	50.0	ND	94.9	70-130	2.15	20	
Benzene	61.0	1.00	"	50.0	2.33	117	70-130	1.08	20	
Ethylbenzene	60.7	1.00	"	50.0	1.72	118	70-130	0.0165	20	
m,p-Xylene	102	2.00	"	100	1.23	101	70-130	1.22	20	
Naphthalene	64.4	2.00	"	50.0	3.00	123	70-130	1.41	20	
o-Xylene	51.3	1.00	"	50.0	0.220	102	70-130	0.861	20	
Toluene	52.6	1.00	"	50.0	0.200	105	70-130	1.76	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	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 - State 16-1214

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 B4F0328 - EPA 3550B										
Blank (B4F0328-BLK1)										
					Prepared: 06/03/2024 Analyzed: 06/05/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		88.8	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - State 16-1214

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 B4F0328 - EPA 3550B

LCS (B4F0328-BS1)

Prepared: 06/03/2024 Analyzed: 06/05/2024

Diesel (C10-C28)	843	50.0	mg/kg	1000		84.3	70-130			
Residual Range Organics (C28-C40)	950	200	"	1000		95.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.2	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 - State 16-1214

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 B4F0328 - EPA 3550B

Matrix Spike (B4F0328-MS1)	Source: Y405866-01			Prepared: 06/03/2024 Analyzed: 06/05/2024						
Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	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 - State 16-1214

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 B4F0328 - EPA 3550B										
Matrix Spike Dup (B4F0328-MSD1)					Source: Y405866-01					Prepared: 06/03/2024 Analyzed: 06/05/2024
Diesel (C10-C28)	825	50.0	mg/kg	1000	ND	82.5	70-130	14.3	35	
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130	12.5	35	
Surrogate: o-Terphenyl	47		"	49.8		94.7	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 - State 16-1214

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 B4E3128 - EPA 3050B

Blank (B4E3128-BLK1)

Prepared: 06/03/2024 Analyzed: 06/05/2024

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 (B4E3128-BS1)

Prepared: 06/03/2024 Analyzed: 06/05/2024

Arsenic	5.62	0.290	mg/kg	5.00		112	80-120			
Barium	539	10.0	"	500		108	80-120			
Cadmium	5.37	0.100	"	5.00		107	80-120			
Copper	55.8	10.0	"	50.0		112	80-120			
Lead	5.40	1.00	"	5.00		108	80-120			
Nickel	5.86	1.00	"	5.00		117	80-120			
Selenium	11.0	0.260	"	9.50		116	80-120			
Silver	5.34	0.100	"	5.00		107	80-120			
Zinc	52.2	37.0	"	50.0		104	80-120			

Matrix Spike (B4E3128-MS1)

Source: Y405866-01

Prepared: 06/03/2024 Analyzed: 06/05/2024

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 - State 16-1214

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 B4E3128 - EPA 3050B

Matrix Spike (B4E3128-MS1)		Source: Y405866-01			Prepared: 06/03/2024 Analyzed: 06/05/2024					
Arsenic	6.74	0.253	mg/kg	4.36	1.80	113	75-125			
Barium	655	8.72	"	436	177	110	75-125			
Cadmium	4.89	0.0872	"	4.36	0.142	109	75-125			
Copper	62.2	8.72	"	43.6	15.2	108	75-125			
Lead	13.2	0.872	"	4.36	8.54	108	75-125			
Nickel	17.7	0.872	"	4.36	12.9	110	75-125			
Selenium	9.21	0.227	"	8.28	0.174	109	75-125			
Silver	4.72	0.0872	"	4.36	0.0233	108	75-125			
Zinc	90.3	32.3	"	43.6	43.5	107	75-125			

Matrix Spike Dup (B4E3128-MSD1)		Source: Y405866-01			Prepared: 06/03/2024 Analyzed: 06/05/2024					
Arsenic	6.78	0.281	mg/kg	4.84	1.80	103	75-125	0.599	20	
Barium	695	9.68	"	484	177	107	75-125	5.95	20	
Cadmium	5.24	0.0968	"	4.84	0.142	105	75-125	6.95	20	
Copper	65.5	9.68	"	48.4	15.2	104	75-125	5.11	20	
Lead	13.1	0.968	"	4.84	8.54	95.3	75-125	0.604	20	
Nickel	17.8	0.968	"	4.84	12.9	102	75-125	0.904	20	
Selenium	9.69	0.252	"	9.20	0.174	103	75-125	5.07	20	
Silver	5.05	0.0968	"	4.84	0.0233	104	75-125	6.82	20	
Zinc	89.1	35.8	"	48.4	43.5	94.1	75-125	1.40	20	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4E3130 - EPA 3580

Blank (B4E3130-BLK1)

Prepared: 05/31/2024 Analyzed: 06/09/2024

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	230		ug/kg	200		113	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.4	60-130			

LCS (B4E3130-BS1)

Prepared: 05/31/2024 Analyzed: 06/09/2024

1-Methylnaphthalene	0.177	0.002	mg/kg	0.200		88.6	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.3	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.9	70-130			
Anthracene	0.184	0.020	"	0.200		92.1	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 - State 16-1214

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 B4E3130 - EPA 3580

LCS (B4E3130-BS1)

Prepared: 05/31/2024 Analyzed: 06/09/2024

Benzo (a) anthracene	0.178	0.005	mg/kg	0.200		89.1	70-130			
Benzo (a) pyrene	0.152	0.020	"	0.200		75.8	70-130			
Benzo (b) fluoranthene	0.171	0.020	"	0.200		85.3	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.178	0.020	"	0.200		89.2	70-130			
Chrysene	0.185	0.020	"	0.200		92.3	70-130			
Dibenz (a,h) anthracene	0.167	0.020	"	0.200		83.5	70-130			
Fluoranthene	0.235	0.020	"	0.200		118	70-130			
Fluorene	0.186	0.020	"	0.200		92.9	70-130			
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200		86.3	70-130			
Naphthalene	0.194	0.002	"	0.200		96.9	70-130			
Phenanthrene	0.185	0.020	"	0.200		92.5	70-130			
Pyrene	0.188	0.020	"	0.200		94.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	190		"	200		93.5	60-130			
Surrogate: Benzo (a) pyrene-d12	170		"	200		85.7	60-130			

Matrix Spike (B4E3130-MS1)

Source: Y405818-01

Prepared: 05/31/2024 Analyzed: 06/09/2024

1-Methylnaphthalene	0.238	0.002	mg/kg	0.200	0.0007	119	70-130			
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130			
Acenaphthene	0.192	0.020	"	0.200	0.003	94.7	70-130			
Anthracene	0.245	0.020	"	0.200	0.003	121	70-130			
Benzo (a) anthracene	0.245	0.005	"	0.200	0.010	118	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	0.012	97.0	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	0.008	91.0	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.009	89.9	70-130			

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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4E3130 - EPA 3580

Matrix Spike (B4E3130-MS1)		Source: Y405818-01			Prepared: 05/31/2024 Analyzed: 06/09/2024					
Benzo (k) fluoranthene	0.168	0.020	mg/kg	0.200	0.006	80.8	70-130			
Chrysene	0.215	0.020	"	0.200	0.017	99.0	70-130			
Dibenz (a,h) anthracene	0.171	0.020	"	0.200	0.011	80.2	70-130			
Fluoranthene	0.207	0.020	"	0.200	0.015	96.3	70-130			
Fluorene	0.276	0.020	"	0.200	0.003	137	70-130			QM-07
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.010	98.3	70-130			
Naphthalene	0.191	0.002	"	0.200	0.001	95.0	70-130			
Phenanthrene	0.216	0.020	"	0.200	0.004	106	70-130			
Pyrene	0.212	0.020	"	0.200	0.014	98.8	70-130			
Surrogate: Fluorene-d10	280		ug/kg	200		142	60-130			QM-07
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.7	60-130			

Matrix Spike Dup (B4E3130-MSD1)		Source: Y405818-01			Prepared: 05/31/2024 Analyzed: 06/09/2024					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.0007	101	70-130	16.7	20	
2-Methylnaphthalene	0.179	0.002	"	0.200	ND	89.5	70-130	20.2	20	QR-02
Acenaphthene	0.194	0.020	"	0.200	0.003	95.4	70-130	0.680	20	
Anthracene	0.189	0.020	"	0.200	0.003	93.1	70-130	25.6	20	QR-02
Benzo (a) anthracene	0.221	0.005	"	0.200	0.010	105	70-130	10.6	20	
Benzo (a) pyrene	0.223	0.020	"	0.200	0.012	106	70-130	8.17	20	
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.008	104	70-130	12.5	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.009	93.5	70-130	3.81	20	
Benzo (k) fluoranthene	0.198	0.020	"	0.200	0.006	95.9	70-130	16.6	20	
Chrysene	0.224	0.020	"	0.200	0.017	103	70-130	4.11	20	
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	0.011	82.3	70-130	2.39	20	
Fluoranthene	0.214	0.020	"	0.200	0.015	99.9	70-130	3.37	20	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4E3130 - EPA 3580

Matrix Spike Dup (B4E3130-MSD1)	Source: Y405818-01			Prepared: 05/31/2024 Analyzed: 06/09/2024						
Fluorene	0.211	0.020	mg/kg	0.200	0.003	104	70-130	26.9	20	QM-07
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	0.010	89.3	70-130	9.10	20	
Naphthalene	0.200	0.002	"	0.200	0.001	99.2	70-130	4.38	20	
Phenanthrene	0.202	0.020	"	0.200	0.004	98.7	70-130	7.14	20	
Pyrene	0.259	0.020	"	0.200	0.014	122	70-130	20.1	20	QR-02
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	240		"	200		118	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 B4F0305 - Saturated Paste Metals

Blank (B4F0305-BLK1)

Prepared: 06/03/2024 Analyzed: 06/04/2024

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

Duplicate (B4F0305-DUP1)

Source: Y405853-01

Prepared: 06/03/2024 Analyzed: 06/04/2024

SAR	ND	0.0100	SAR		ND				200	
Calcium PPM	86.0	10.0	mg/L		105			19.7	50	
Magnesium PPM	18.4	10.0	"		21.2			14.2	50	
Sodium PPM	38.0	10.0	"		40.6			6.36	50	

Batch B4F0308 - DTPA Sorbitol Preparation

Blank (B4F0308-BLK1)

Prepared: 06/03/2024 Analyzed: 06/04/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4F0308-DUP1)

Source: Y405866-01

Prepared: 06/03/2024 Analyzed: 06/04/2024

Boron	0.105	0.0995	mg/L		0.125			17.3	50	
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Batch B4F0315 - Filter .45um non acidified

Blank (B4F0315-BLK1)

Prepared: 06/03/2024 Analyzed: 06/03/2024

Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

LCS (B4F0315-BS1)

Prepared: 06/03/2024 Analyzed: 06/03/2024

Chloride	3.81	0.250	mg/L	4.00	95.3		90-110			
Sulfate	4.10	0.250	"	4.00	102		90-110			

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 - State 16-1214

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0315 - Filter .45um non acidified										
Matrix Spike (B4F0315-MS1)			Source: Y405874-01		Prepared: 06/03/2024 Analyzed: 06/03/2024					
Chloride	877		mg/L	500	387	98.1	90-110			
Sulfate	1220		"	500	696	106	90-110			
Matrix Spike Dup (B4F0315-MSD1)			Source: Y405874-01		Prepared: 06/03/2024 Analyzed: 06/03/2024					
Chloride	876		mg/L	500	387	97.8	90-110	0.154	5	
Sulfate	1220		"	500	696	105	90-110	0.420	5	
Batch B4F0323 - NO PREP										
Blank (B4F0323-BLK1)			Prepared: 06/03/2024 Analyzed: 06/05/2024							
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4F0323-BS1)			Prepared: 06/03/2024 Analyzed: 06/05/2024							
Total Dissolved Solids	1010	5.00	mg/L	1020		98.8	90-110			
Duplicate (B4F0323-DUP1)			Source: Y405874-01		Prepared: 06/03/2024 Analyzed: 06/05/2024					
Total Dissolved Solids	2250	5.00	mg/L		2220			1.25	10	

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0312 - Saturated Paste pH/EC										
Blank (B4F0312-BLK1)					Prepared: 06/03/2024 Analyzed: 06/04/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F0312-DUP1)		Source: Y405853-01			Prepared: 06/03/2024 Analyzed: 06/04/2024					
Specific Conductance (EC)	0.920	0.00500	mmhos/cm		1.04			12.3	25	
pH	8.52		pH Units		8.39			1.54	25	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - State 16-1214

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 2623046 - SW846 3060A										
BLANK (1205754780-BLK)					Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	ND	0.280	mg/kg				-			U
LCS (1205754781-BKS)					Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	2.96	0.300	mg/kg	3.00		98.5	80-120			
DUP (1205754782 D)					Source: 670023001 Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	ND	0.326	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205754783 S)					Source: 670023001 Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	0.931	0.326	mg/kg dry	3.26	<0.130	25.5	75-125			
DUP (1205754784 D)					Source: Y405877-01 Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	0.169	0.320	mg/kg dry		0.214		0-50	23.5	50	J
MS (1205754785 S)					Source: Y405877-01 Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	1.88	0.354	mg/kg dry	3.54	0.214	46.9	75-125			
ILCS (1205754786-ILCS)					Prepared: 06/07/2024 Analyzed: 06/10/2024					
Hexavalent Chromium	6.85	0.329	mg/kg	6.63		103	80-120			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - State 16-1214

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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

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