



Facility Closure Investigation and Environmental Summary

State PC AB16-09 Wellhead

ECMC Remediation Project #33869

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

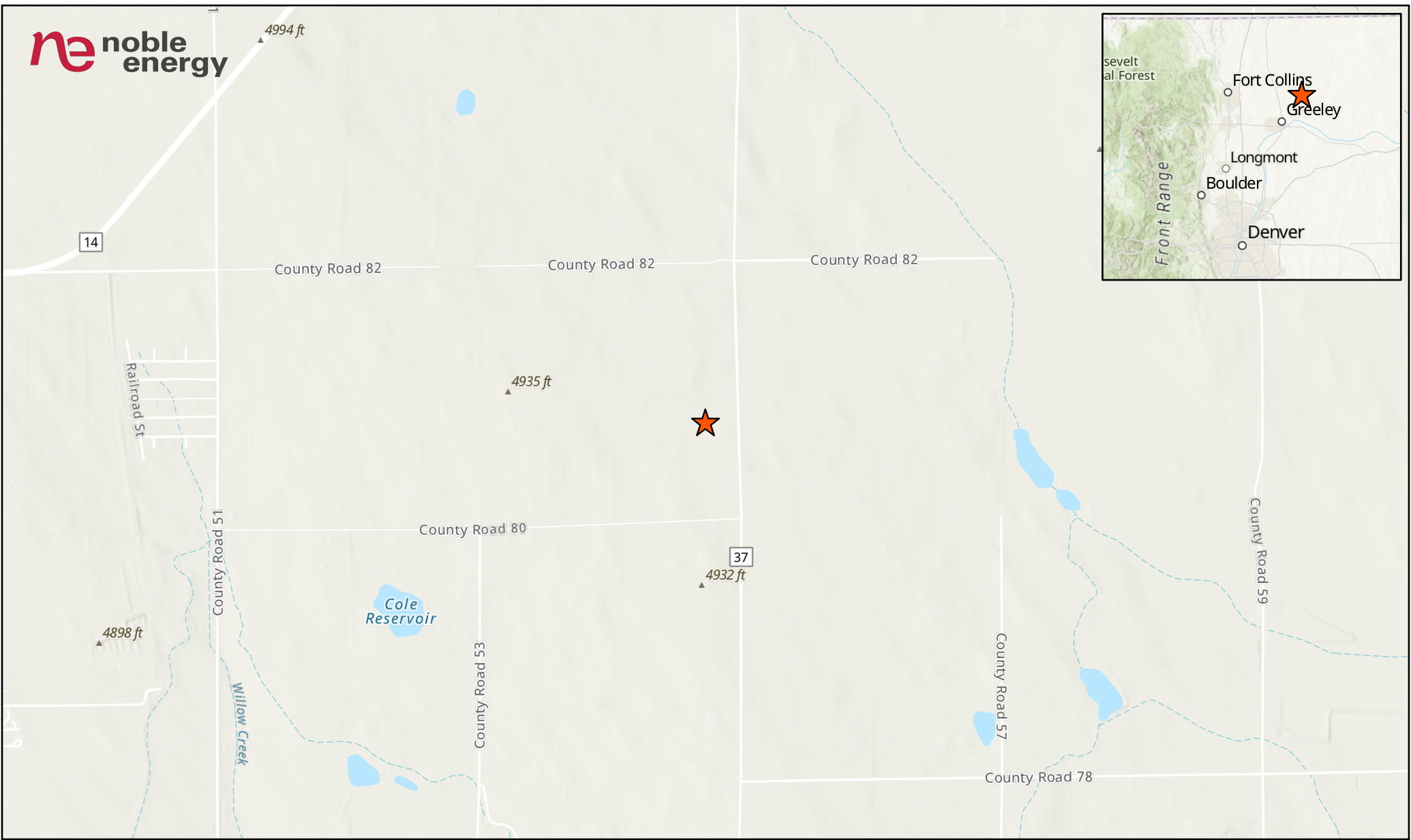
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

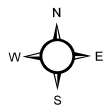
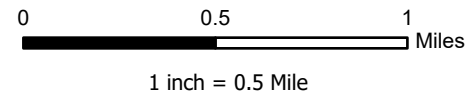
Attachment C: Laboratory Analytical Reports


FIGURES

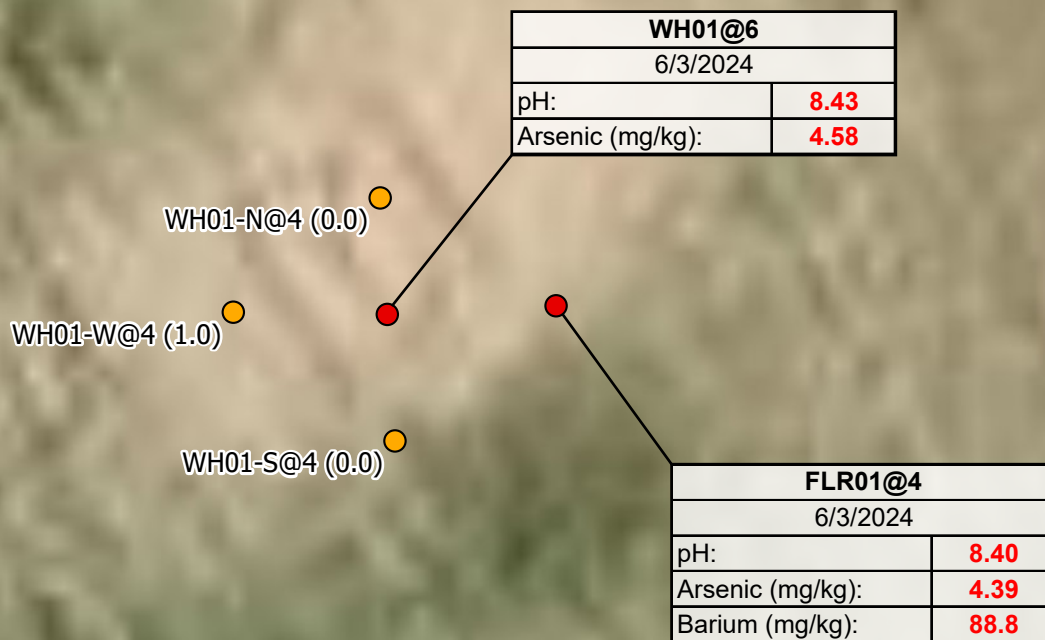


LEGEND

★ Site Location



Project No: 024-240	STATE PC AB16-09 WELLHEAD GENERAL LOCATION MAP NOBLE ENERGY NE 1/4 SE 1/4 SECTION 16 T7N R64W, 6TH PM WELD COUNTY, COLORADO	 1843 Sunlight Dr. Longmont, CO 80504 303.378.4036	Figure
Map By: JW			1
Date: 07/24/2024			



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

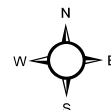
Maxar, Microsoft

Legend

● Soil Sample ● Screening Location

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

0 5 10
 Feet
 1 inch = 10 Feet



Project No: 024-240

Map By: JW

Date: 07/23/2024

**STATE PC AB16-09 WELLHEAD
 SOIL SAMPLE AND FIELD SCREENING LOCATIONS**
 NOBLE ENERGY
 NE 1/4 SE 1/4 SECTION 16
 T7N 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 PC AB16-09 WELLHEAD, WELD COUNTY, COLORADO
REM # 33869

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	6/3/2024	6	40.571369	-104.547480	0.0
FLR01@4	6/3/2024	4	40.571370	-104.547448	0.0
WH01-N@4	6/3/2024	4	40.571386	-104.547481	0.0
WH01-W@4	6/3/2024	4	40.571369	-104.547509	1.0
WH01-S@4	6/3/2024	4	40.571351	-104.547479	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
STATE PC AB16-09 WELLHEAD, WELD COUNTY, COLORADO
REM # 33869

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	6/3/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	6/3/2024	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
STATE PC AB16-09 WELLHEAD, WELD COUNTY, COLORADO
REM # 33869

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	6/3/2024	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	6/3/2024	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
STATE PC AB16-09 WELLHEAD, WELD COUNTY, COLORADO
REM # 33869

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	6/3/2024	6	8.43	0.842	4.36	0.478
FLR01@4	6/3/2024	4	8.40	0.769	4.48	0.301

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
STATE PC AB16-09 WELLHEAD, WELD COUNTY, COLORADO
REM # 33869

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	6/3/2024	6	4.58	49.6	0.119	<0.121*	9.14	10.2	8.46	<0.230	<0.0884	35.0
FLR01@4	6/3/2024	4	4.39	88.8	0.176	<0.137*	<8.76	12.4	6.76	<0.228	<0.0876	<32.4

1. **RED** - Above ECMC Table 915-1 Standards
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory minimum detection limit in excess of SSL
- ft-bgs - feet below ground surface
- mg/kg - milligrams per kilogram

ATTACHMENT A
PHOTOGRAPHIC LOG

State PC AB16-09 Wellhead Photographic Log



State PC AB16-09 Wellhead Photographic Log



State PC AB16-09 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
Site Name & COGCC Facility Number: State PC AB16-09, 416853		Date: 06/03/2024				Remediation Project #: 33869
Associated Wells: NA		Age of Site: 05/14/2010-spud date				Number of Photos Attached: 3
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.571370 / -104.547470					Estimated Facility Size (acres): ~0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
Overall good						
USCS Soil Type: Silty Sand (SM)				Estimated Depth to Groundwater: Unknown as none encountered		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None encountered or observed						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None encountered or observed						
Wellhead(s)						
Well API	05-123-31496					
Age	05/14/2010-spud date					
Condition of surface around wellhead	Good					
PID Readings	0.0 ppm to 1.0 ppm					
Condition of subsurface (staining present)	Good					
PID Readings	0.0 ppm to 1.0 ppm					
Sample taken? Location/Sample ID#	WH01@6, FLR01@4					
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: 1.0 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 18, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - State PC AB16-09

Project Number - [none]

Attached are your analytical results for Chevron - State PC AB16-09 received by Origins Laboratory, Inc. June 03, 2024. This project is associated with Origins project number Y406051-01.

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 PC AB16-09

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y406051-01	Soil	June 3, 2024 12:00	06/03/2024 17:15
FLR01@4	Y406051-02	Soil	June 3, 2024 12:05	06/03/2024 17:15

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 Verysen

Project Number: [none]

Project: Chevron - State PC AB16-09

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

ORIGINS

LABORATORY, INC

440051

www.originslaboratory.com

Bill to Chevron
(Daisy Smith)

page 1 of 1

Client: Entrada

Address:

Telephone Number: 303-319-8703

Email Address: Entrada Distribution

Project Manager: Chelsea Verysen

Project Name: State PC AB16-09

Project Number:

Samples Collected By: Jan Lohr

CC: RBUEU527@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
W401-Q6	6/3/14	1200	2	X								1	
W401-Q4		1205	1									2	
W401-NQ4		1210	1									3	
W401-WQ4		1215	1									4	
W401-SQ4		1220	1									5	
												6	
												7	
												8	
												9	
												10	

Temp Received- 18.4°C

Date Results Needed

Relinquished By: [Signature]

Date: 6/3/14

Time: 1500

Received By: [Signature]

Date: 06/03/14

Time: 16:00

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

Relinquished By: [Signature]

Date: 06/03/14

Time: 17:15

Received By: [Signature]

Date: 06/04/14

Time: 16:00

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 Verysen

Project Number: [none]

Project: Chevron - State PC AB16-09

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4400051

Client: Entrada

Client Project ID: STATE PC AB16-09

Checklist Completed by: JH / EKH

Shipped Via: TUP

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

Date/time completed: 6/14/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 18.4 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<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 subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) EKH

Date/Time Reviewed 6/14/12

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 PC AB16-09

WH01@6
6/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406051-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.478	0.100	mg/L	1	B4F0520	06/05/2024	06/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0429	06/04/2024	06/06/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.9 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0502	06/05/2024	06/05/2024	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	103 %	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 - State PC AB16-09

WH01@6
6/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406051-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B4F0502	06/05/2024	06/05/2024
Surrogate: 4-Bromofluorobenzene	114 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.52	0.499	meq/L	10	[CALC]	06/05/2024	06/06/2024
Magnesium	1.03	0.823	"	"	"	"	"
Sodium	4.93	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0721	06/07/2024	06/16/2024	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 - State PC AB16-09

WH01@6
6/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406051-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0721	06/07/2024	06/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.43	pH Units	1	B4F0527	06/05/2024	06/06/2024
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SAR by 20B Saturated Paste

SAR	4.36	0.0100	SAR	1	B4F0521	06/05/2024	06/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.842	0.00500	mmhos/cm	1	B4F0527	06/05/2024	06/06/2024
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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 - State PC AB16-09

WH01@6

6/3/2024 12:00:00PM

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

Y406051-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.58	0.257	mg/kg	10	B4F0426	06/04/2024	06/05/2024
Barium	49.6	8.84	"	"	"	"	"
Cadmium	0.119	0.0884	"	"	"	"	"
Copper	9.14	8.84	"	"	"	"	"
Lead	10.2	0.884	"	"	"	"	"
Nickel	8.46	0.884	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.0884	"	"	"	"	"
Zinc	35.0	32.7	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.304	mg/kg dry	1	2625458	06/12/2024	06/13/2024	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 PC AB16-09

FLR01@4
6/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406051-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.301	0.100	mg/L	1	B4F0520	06/05/2024	06/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0429	06/04/2024	06/06/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0502	06/05/2024	06/05/2024	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	105 %	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 - State PC AB16-09

FLR01@4
6/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406051-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.6 %	70-130	B4F0502	06/05/2024	06/05/2024
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	06/05/2024	06/06/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.55	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0721	06/07/2024	06/16/2024	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 - State PC AB16-09

FLR01@4

6/3/2024 12:05:00PM

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

Y406051-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0721	06/07/2024	06/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B4F0527	06/05/2024	06/06/2024
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SAR by 20B Saturated Paste

SAR	4.48	0.0100	SAR	1	B4F0521	06/05/2024	06/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.769	0.00500	mmhos/cm	1	B4F0527	06/05/2024	06/06/2024
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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 - State PC AB16-09

FLR01@4

6/3/2024 12:05:00PM

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

Y406051-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.39	0.254	mg/kg	10	B4F0426	06/04/2024	06/05/2024
Barium	88.8	8.76	"	"	"	"	"
Cadmium	0.176	0.0876	"	"	"	"	"
Copper	ND	8.76	"	"	"	"	"
Lead	12.4	0.876	"	"	"	"	"
Nickel	6.76	0.876	"	"	"	"	"
Selenium	ND	0.228	"	"	"	"	"
Silver	ND	0.0876	"	"	"	"	"
Zinc	ND	32.4	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.137	0.342	mg/kg dry	1	2625458	06/12/2024	06/13/2024	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 PC AB16-09

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 B4F0429 - EPA 3550B

Blank (B4F0429-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		90.8	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - State PC AB16-09

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 B4F0429 - EPA 3550B

LCS (B4F0429-BS1)

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

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	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 PC AB16-09

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 B4F0429 - EPA 3550B

Matrix Spike (B4F0429-MS1)		Source: Y406048-01			Prepared: 06/04/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	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 PC AB16-09

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 B4F0429 - EPA 3550B

Matrix Spike Dup (B4F0429-MSD1)		Source: Y406048-01			Prepared: 06/04/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	7.46	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	7.32	35	
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 PC AB16-09

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 B4F0502 - EPA 5030 (soil)										
Blank (B4F0502-BLK1)					Prepared: 06/05/2024 Analyzed: 06/05/2024					
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	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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 PC AB16-09

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 B4F0502 - EPA 5030 (soil)

LCS (B4F0502-BS1)

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

1,2,4-Trimethylbenzene	0.0859	0.00200	mg/kg	0.100		85.9	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100		88.4	70-130			
Benzene	0.0841	0.00200	"	0.100		84.1	70-130			
Ethylbenzene	0.0909	0.00200	"	0.100		90.9	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0963	0.00200	"	0.100		96.3	70-130			
o-Xylene	0.0870	0.00200	"	0.100		87.0	70-130			
m,p-Xylene	0.164	0.00400	"	0.200		81.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	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 - State PC AB16-09

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 B4F0502 - EPA 5030 (soil)										
Matrix Spike (B4F0502-MS1)		Source: Y406051-01			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.0445	0.00200	mg/kg	0.100	ND	44.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0445	0.00200	"	0.100	ND	44.5	70-130			QM-07
Benzene	0.0444	0.00200	"	0.100	ND	44.4	70-130			QM-07
Ethylbenzene	0.0448	0.00200	"	0.100	ND	44.8	70-130			QM-07
Naphthalene	0.0631	0.00380	"	0.100	ND	63.1	70-130			QM-07
Toluene	0.0518	0.00200	"	0.100	ND	51.8	70-130			QM-07
o-Xylene	0.0454	0.00200	"	0.100	ND	45.4	70-130			QM-07
m,p-Xylene	0.0909	0.00400	"	0.200	ND	45.5	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	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 - State PC AB16-09

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 B4F0502 - EPA 5030 (soil)										
Matrix Spike Dup (B4F0502-MSD1)		Source: Y406051-01			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.0625	0.00200	mg/kg	0.100	ND	62.5	70-130	33.6	20	QM-07
1,3,5-Trimethylbenzene	0.0642	0.00200	"	0.100	ND	64.2	70-130	36.2	20	QM-07
Benzene	0.0646	0.00200	"	0.100	ND	64.6	70-130	37.0	20	QM-07
Ethylbenzene	0.0561	0.00200	"	0.100	ND	56.1	70-130	22.4	20	QM-07
Naphthalene	0.0937	0.00380	"	0.100	ND	93.7	70-130	39.0	20	QM-07, QR-02
Toluene	0.0677	0.00200	"	0.100	ND	67.7	70-130	26.7	20	QM-07
o-Xylene	0.0561	0.00200	"	0.100	ND	56.1	70-130	21.1	20	QM-07
m,p-Xylene	0.113	0.00400	"	0.200	ND	56.3	70-130	21.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.9	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 PC AB16-09

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 B4F0426 - EPA 3050B

Blank (B4F0426-BLK1)

Prepared: 06/04/2024 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 (B4F0426-BS1)

Prepared: 06/04/2024 Analyzed: 06/05/2024

Arsenic	5.58	0.290	mg/kg	5.00	112	80-120
Barium	563	10.0	"	500	113	80-120
Cadmium	5.53	0.100	"	5.00	111	80-120
Copper	55.1	10.0	"	50.0	110	80-120
Lead	5.57	1.00	"	5.00	111	80-120
Nickel	5.55	1.00	"	5.00	111	80-120
Selenium	11.3	0.260	"	9.50	119	80-120
Silver	5.43	0.100	"	5.00	109	80-120
Zinc	53.4	37.0	"	50.0	107	80-120

Matrix Spike (B4F0426-MS1)

Source: Y406004-01

Prepared: 06/04/2024 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 PC AB16-09

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 B4F0426 - EPA 3050B

Matrix Spike (B4F0426-MS1)		Source: Y406004-01			Prepared: 06/04/2024 Analyzed: 06/05/2024					
Arsenic	9.42	0.264	mg/kg	4.55	4.88	99.7	75-125			
Barium	655	9.11	"	455	127	116	75-125			
Cadmium	5.03	0.0911	"	4.55	0.207	106	75-125			
Copper	58.4	9.11	"	45.5	13.6	98.4	75-125			
Lead	16.8	0.911	"	4.55	11.8	111	75-125			
Nickel	19.1	0.911	"	4.55	15.1	87.5	75-125			
Selenium	9.39	0.237	"	8.65	0.142	107	75-125			
Silver	4.69	0.0911	"	4.55	0.0432	102	75-125			
Zinc	94.9	33.7	"	45.5	51.0	96.4	75-125			
Matrix Spike Dup (B4F0426-MSD1)		Source: Y406004-01			Prepared: 06/04/2024 Analyzed: 06/05/2024					
Arsenic	9.98	0.264	mg/kg	4.55	4.88	112	75-125	5.78	20	
Barium	689	9.10	"	455	127	124	75-125	5.15	20	
Cadmium	5.41	0.0910	"	4.55	0.207	115	75-125	7.44	20	
Copper	61.8	9.10	"	45.5	13.6	106	75-125	5.70	20	
Lead	18.4	0.910	"	4.55	11.8	144	75-125	8.62	20	QM-07
Nickel	19.8	0.910	"	4.55	15.1	103	75-125	3.61	20	
Selenium	9.77	0.236	"	8.64	0.142	111	75-125	3.91	20	
Silver	5.06	0.0910	"	4.55	0.0432	110	75-125	7.45	20	
Zinc	101	33.7	"	45.5	51.0	110	75-125	6.20	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 - State PC AB16-09

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 B4F0721 - EPA 3580

Blank (B4F0721-BLK1)

Prepared: 06/07/2024 Analyzed: 06/16/2024

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	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4F0721-BS1)

Prepared: 06/07/2024 Analyzed: 06/16/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.3	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200		92.5	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.3	70-130			
Anthracene	0.189	0.020	"	0.200		94.4	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - State PC AB16-09

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 B4F0721 - EPA 3580

LCS (B4F0721-BS1)

Prepared: 06/07/2024 Analyzed: 06/16/2024

Benzo (a) anthracene	0.224	0.005	mg/kg	0.200		112	70-130
Benzo (a) pyrene	0.212	0.020	"	0.200		106	70-130
Benzo (b) fluoranthene	0.184	0.020	"	0.200		91.9	70-130
Benzo (g,h,i) perylene	0.174	0.020	"	0.200		86.9	70-130
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.6	70-130
Chrysene	0.203	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.4	70-130
Fluoranthene	0.207	0.020	"	0.200		103	70-130
Fluorene	0.198	0.020	"	0.200		99.1	70-130
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200		109	70-130
Naphthalene	0.187	0.002	"	0.200		93.4	70-130
Phenanthrene	0.184	0.020	"	0.200		91.8	70-130
Pyrene	0.189	0.020	"	0.200		94.3	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	200		"	200		99.8	60-130
Surrogate: Pyrene-d10	200		"	200		99.0	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130

Matrix Spike (B4F0721-MS1)

Source: Y406004-01

Prepared: 06/07/2024 Analyzed: 06/16/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	0.0005	95.0	70-130
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.1	70-130
Acenaphthene	0.196	0.020	"	0.200	ND	98.1	70-130
Anthracene	0.202	0.020	"	0.200	0.0007	101	70-130
Benzo (a) anthracene	0.231	0.005	"	0.200	0.002	115	70-130
Benzo (a) pyrene	0.251	0.020	"	0.200	0.001	125	70-130
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.0005	116	70-130
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.002	95.4	70-130

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - State PC AB16-09

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 B4F0721 - EPA 3580

Matrix Spike (B4F0721-MS1)		Source: Y406004-01			Prepared: 06/07/2024 Analyzed: 06/16/2024					
Benzo (k) fluoranthene	0.248	0.020	mg/kg	0.200	ND	124	70-130			
Chrysene	0.210	0.020	"	0.200	0.002	104	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200	0.006	87.3	70-130			
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	0.004	116	70-130			
Naphthalene	0.192	0.002	"	0.200	0.002	94.9	70-130			
Phenanthrene	0.189	0.020	"	0.200	ND	94.6	70-130			
Pyrene	0.195	0.020	"	0.200	ND	97.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

Matrix Spike Dup (B4F0721-MSD1)		Source: Y406004-01			Prepared: 06/07/2024 Analyzed: 06/16/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0005	95.8	70-130	0.755	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.4	70-130	1.36	20	
Acenaphthene	0.197	0.020	"	0.200	ND	98.7	70-130	0.587	20	
Anthracene	0.209	0.020	"	0.200	0.0007	104	70-130	3.60	20	
Benzo (a) anthracene	0.236	0.005	"	0.200	0.002	117	70-130	2.24	20	
Benzo (a) pyrene	0.243	0.020	"	0.200	0.001	121	70-130	3.22	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.0005	104	70-130	10.5	20	
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.002	95.0	70-130	0.439	20	
Benzo (k) fluoranthene	0.228	0.020	"	0.200	ND	114	70-130	8.53	20	
Chrysene	0.213	0.020	"	0.200	0.002	106	70-130	1.69	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	0.006	93.4	70-130	6.57	20	
Fluoranthene	0.215	0.020	"	0.200	ND	107	70-130	0.476	20	

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - State PC AB16-09

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 B4F0721 - EPA 3580

Matrix Spike Dup (B4F0721-MSD1)		Source: Y406004-01			Prepared: 06/07/2024 Analyzed: 06/16/2024					
Fluorene	0.205	0.020	mg/kg	0.200	ND	102	70-130	1.59	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.004	96.4	70-130	18.1	20	
Naphthalene	0.194	0.002	"	0.200	0.002	96.3	70-130	1.43	20	
Phenanthrene	0.190	0.020	"	0.200	ND	95.2	70-130	0.609	20	
Pyrene	0.202	0.020	"	0.200	ND	101	70-130	3.66	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - State PC AB16-09

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 B4F0520 - DTPA Sorbitol Preparation

Blank (B4F0520-BLK1)

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

Boron ND 0.100 mg/L

Duplicate (B4F0520-DUP1)

Source: Y406005-02

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

Boron 0.876 0.101 mg/L 0.862 1.59 50

Batch B4F0521 - Saturated Paste Metals

Blank (B4F0521-BLK1)

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

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 (B4F0521-DUP1)

Source: Y405908-01

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

SAR ND 0.0100 SAR 0.145 200

Calcium PPM 39.4 10.0 mg/L 31.3 23.0 50

Magnesium PPM 15.8 10.0 " 12.7 21.2 50

Sodium PPM 4.20 10.0 " 3.80 10.0 50

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - State PC AB16-09

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0527 - Saturated Paste pH/EC										
Blank (B4F0527-BLK1)					Prepared: 06/05/2024 Analyzed: 06/06/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F0527-DUP1)					Source: Y405908-01 Prepared: 06/05/2024 Analyzed: 06/06/2024					
pH	8.31		pH Units		8.50			2.26	25	
Specific Conductance (EC)	0.324	0.00500	mmhos/cm		0.270			18.5	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 - State PC AB16-09

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 2625458 - SW846 3060A										
BLANK (1205759270-BLK)					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.279	mg/kg				-			U
LCS (1205759271-BKS)					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	3.34	0.332	mg/kg	3.32		100	80-120			
DUP (1205759272 D)					Source: 670243003 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.324	mg/kg dry		<0.129		0-50	N/A	50	U
MS (1205759273 S)					Source: 670243003 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	2.82	0.324	mg/kg dry	3.24	<0.129	84.8	75-125			
DUP (1205759274 D)					Source: 670254002 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.446	mg/kg dry		<0.178		0-50	N/A	50	U
MS (1205759275 S)					Source: 670254002 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	3.50	0.446	mg/kg dry	4.46	<0.178	77.1	75-125			
ILCS (1205759276-ILCS)					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	6.55	0.316	mg/kg	6.35		103	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 - State PC AB16-09

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.

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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