



## **Facility Closure Investigation and Environmental Summary**

Todd 20-02 Wellhead

ECMC Remediation Project #34774

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**

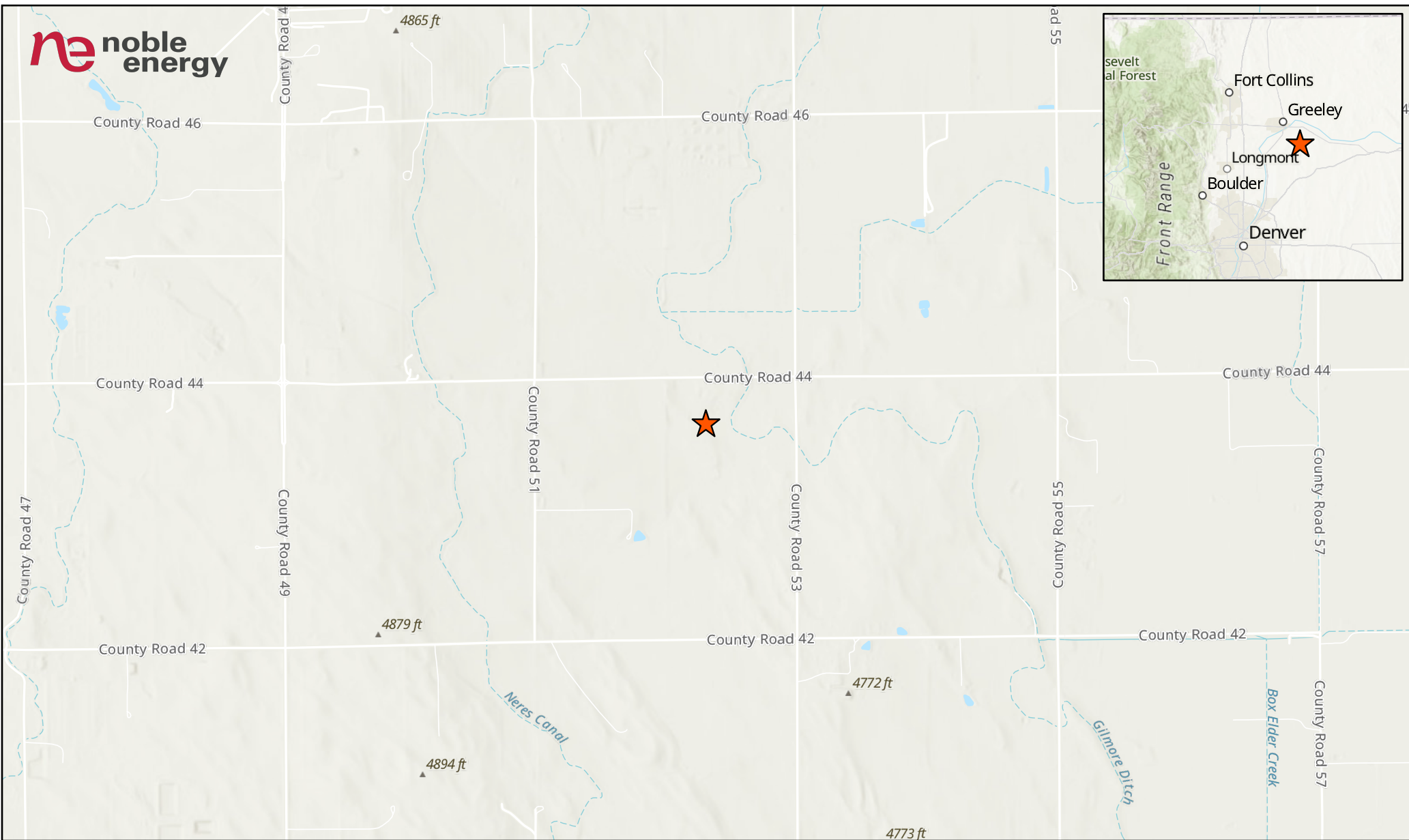
**Table 5 – Soil Analytical Results Summary Table – Metals**

**Attachment A: Photographic Log**

**Attachment B: Facility Closure Checklists**

**Attachment C: Laboratory Analytical Reports**

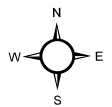
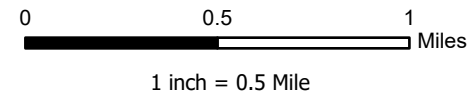
## FIGURES



**LEGEND**



Site Location



Project No: 024-226

Map By: JW

Date: 07/25/2024

**TODD 20-02 WELLHEAD  
GENERAL LOCATION MAP**  
NOBLE ENERGY  
NW 1/4 NE 1/4 SECTION 20  
T4N R64W, 6TH PM  
WELD COUNTY, COLORADO



1843 Sunlight Dr.  
Longmont, CO 80504  
303.378.4036

Figure

1

FLR01@4	
5/17/2024	
pH:	8.46
Arsenic (mg/kg):	2.11

WH01@6	
5/17/2024	
pH:	8.32
Arsenic (mg/kg):	3.12

WH01-W@4 (0.0)      WH01-E@4 (0.8)  
 WH01-S@4 (0.7)

**LABEL LEGEND**

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

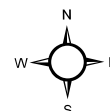
**Legend**

● Soil Sample      ● Screening Location

**NOTES:**

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

0      5      10  
 Feet  
 1 inch = 10 Feet



Project No: 024-226

Map By: JW

Date: 07/25/2024

**TODD 20-02 WELLHEAD**  
**SOIL SAMPLE AND FIELD SCREENING LOCATIONS**  
 NOBLE ENERGY  
 NW 1/4 NE 1/4 SECTION 20  
 T4N R64W, 6TH PM  
 WELD COUNTY, COLORADO



1843 Sunlight Drive  
 Longmont, CO 80504  
 303.378.4036

Figure

2

## **TABLES**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**Todd 20-02 WELLHEAD, WELD COUNTY, COLORADO**  
**REM # 34774**

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	5/17/2024	6	40.302666	-104.571639	0.6
FLR01@4	5/17/2024	4	40.302683	-104.571641	0.4
WH01-S@4	5/17/2024	4	40.302650	-104.571639	0.7
WH01-E@4	5/17/2024	4	40.302667	-104.571624	0.8
WH01-W@4	5/17/2024	4	40.302666	-104.571656	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  
Todd 20-02 WELLHEAD, WELD COUNTY, COLORADO  
REM # 34774

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	5/17/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	5/17/2024	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  
Todd 20-02 WELLHEAD, WELD COUNTY, COLORADO  
REM # 34774

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	5/17/2024	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	5/17/2024	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  
Todd 20-02 WELLHEAD, WELD COUNTY, COLORADO  
REM # 34774

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	5/17/2024	6	8.32	0.334	0.451	0.173
FLR01@4	5/17/2024	4	8.46	0.498	0.336	0.273

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  
Todd 20-02 WELLHEAD, WELD COUNTY, COLORADO  
REM # 34774

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	5/17/2024	6	3.12	75.9	0.0910	<0.115*	<8.51	7.05	8.38	<0.221	<0.0851	32.2
FLR01@4	5/17/2024	4	2.11	52.2	0.122	<0.125*	<8.48	12.5	4.77	<0.220	<0.0848	<31.4

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

**ATTACHMENT A**  
**PHOTOGRAPHIC LOG**

Todd 20-02 Wellhead Photographic Log



Todd 20-02 Wellhead Photographic Log





# Todd 20-02 Wellhead Photographic Log



Todd 20-02 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: Todd 20-02, 249875		Date: 05/17/2024				Remediation Project #: 34774
Associated Wells: LONG C20-22D		Age of Site: 11/27/1993-spud date				Number of Photos Attached: 4
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.302677 / -104.571630					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 observed or encountered						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None observed or encountered						
Wellhead(s)						
Well API	05-123-17678					
Age	11/27/1993- spud date					
Condition of surface around wellhead	Good					
PID Readings	0.0 ppm to 0.8 ppm					
Condition of subsurface (staining present)	Good					
PID Readings	0.0 ppm to 0.8 ppm					
Sample taken? Location/Sample ID#	WH01@6, FLR01@4					
Photo Number(s)	1-4					
Other observations regarding wellheads:						
Summary						
Was impacted soil identified?						
<input checked="" type="checkbox"/> No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards		
Total number of samples field screened: 5				Total number of samples collected: 5		
Highest PID Reading: 0.8 ppm				Total number of samples submitted to lab for analysis: 2		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
<input checked="" type="checkbox"/> No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils		
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:		
Free product observed? Yes No				Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						

**ATTACHMENT C**  
**LABORATORY ANALYTICAL REPORTS**



June 17, 2024

**Entrada Consulting Group**

**Chelsea Veryser**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Chevron - Todd 20-02**

**Project Number - [none]**

Attached are your analytical results for Chevron - Todd 20-02 received by Origins Laboratory, Inc. May 17, 2024. This project is associated with Origins project number Y405565-01.

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 - Todd 20-02

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405565-01	Soil	May 17, 2024 9:00	05/17/2024 16:04
FLR01@4	Y405565-02	Soil	May 17, 2024 9:05	05/17/2024 16:04

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*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.*

Page 3 of 30

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1405565

Client: Entrada

Client Project ID: Todd 20-02

Checklist Completed by: SE 1540

Shipped Via: 110

Date/time completed: 5/17/12

(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 12.1 °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 <sup>(1)</sup> ?	<u>/</u>	<u>/</u>		<u>SD</u>
Is there ice present (document if blue ice is used)	<u>/</u>	<u>/</u>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<u>/</u>	<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<u>/</u>	<u>/</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>/</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<u>/</u>	<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<u>/</u>			
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<u>/</u>		<u>/</u>	
Additional Comments (if any):				

<sup>(1)</sup> 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) COA

Date/Time Reviewed 5/17/12

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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 - Todd 20-02

WH01@6  
5/17/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.173	0.0996	mg/L	1	B4E2108	05/21/2024	05/22/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	05/20/2024	05/21/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	78.6 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	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	96.3 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

WH01@6

5/17/2024 9:00:00AM

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

Y405565-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130				B4E20 27	05/20/2024	05/20/2024	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130				"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	1.88	0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.522	0.435	"	"	"	"	"	

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2032	05/20/2024	05/21/2024	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.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

WH01@6

5/17/2024 9:00:00AM

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

Y405565-01 (Soil)

## PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2032	05/20/2024	05/21/2024	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	87.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.32	pH Units	1	B4E2121	05/21/2024	05/22/2024
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## SAR by 20B Saturated Paste

SAR	0.451	0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.334	0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024
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## Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

WH01@6

5/17/2024 9:00:00AM

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

Y405565-01 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.12	0.247	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	75.9	8.51	"	"	"	"	"	
Cadmium	0.0910	0.0851	"	"	"	"	"	
Copper	ND	8.51	"	"	"	"	"	Ua
Lead	7.05	0.851	"	"	"	"	"	
Nickel	8.38	0.851	"	"	"	"	"	
Selenium	ND	0.221	"	"	"	"	"	Ua
Silver	ND	0.0851	"	"	"	"	"	Ua
Zinc	32.2	31.5	"	"	"	"	"	

## Total Metals 7196A

Hexavalent Chromium	ND	0.115	0.286	mg/kg dry	1	2620905	06/04/2024	06/06/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

FLR01@4  
5/17/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.273	0.0995	mg/L	1	B4E2108	05/21/2024	05/22/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	05/20/2024	05/22/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	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	97.4 %	70-130			"	"	"	
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

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

Y405565-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130				B4E20 27	05/20/2024	05/20/2024	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130				"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2032	05/20/2024	05/21/2024	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

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

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

Y405565-02 (Soil)

## PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2032	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.3 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B4E2121	05/21/2024	05/22/2024
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## SAR by 20B Saturated Paste

SAR	0.336	0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.498	0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024
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## Table 915 metals by EPA 6020B

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Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

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

Y405565-02 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.11	0.246	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	52.2	8.48	"	"	"	"	"	
Cadmium	0.122	0.0848	"	"	"	"	"	
Copper	ND	8.48	"	"	"	"	"	Ua
Lead	12.5	0.848	"	"	"	"	"	
Nickel	4.77	0.848	"	"	"	"	"	
Selenium	ND	0.220	"	"	"	"	"	Ua
Silver	ND	0.0848	"	"	"	"	"	Ua
Zinc	ND	31.4	"	"	"	"	"	Ua

## Total Metals 7196A

Hexavalent Chromium	ND	0.125	0.312	mg/kg dry	1	2620905	06/04/2024	06/06/2024	U
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Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2002 - EPA 3550B										
Blank (B4E2002-BLK1)					Prepared: 05/20/2024 Analyzed: 05/21/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.2	50-150			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2002 - EPA 3550B

#### LCS (B4E2002-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	863	50.0	mg/kg	1000		86.3	70-130			
Residual Range Organics (C28-C40)	949	200	"	1000		94.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2002 - EPA 3550B

Matrix Spike (B4E2002-MS1)		Source: Y405574-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130			
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2002 - EPA 3550B

Matrix Spike Dup (B4E2002-MSD1)		Source: Y405574-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	70-130	11.1	35	
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130	10.2	35	
Surrogate: o-Terphenyl	47		"	49.8		93.6	50-150			

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Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2027 - EPA 5030 (soil)										
Blank (B4E2027-BLK1)					Prepared: 05/20/2024 Analyzed: 05/20/2024					
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		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.081		"	0.125		64.6	70-130			S-GC

Origins Laboratory, Inc.



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Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

**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 B4E2027 - EPA 5030 (soil)**

**LCS (B4E2027-BS1)**

Prepared: 05/20/2024 Analyzed: 05/20/2024

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E2027 - EPA 5030 (soil)

Matrix Spike (B4E2027-MS1)		Source: Y405557-01			Prepared: 05/20/2024 Analyzed: 05/20/2024					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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330 Grand Ave. Unit C

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

**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 B4E2027 - EPA 5030 (soil)**

Matrix Spike Dup (B4E2027-MSD1)		Source: Y405557-01			Prepared: 05/20/2024 Analyzed: 05/20/2024					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	1.93	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	1.94	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	0.392	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.899	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.617	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	0.0185	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	1.60	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130	1.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## 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 B4E1749 - EPA 3050B

#### Blank (B4E1749-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

#### LCS (B4E1749-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	5.38	0.290	mg/kg	5.00		108	80-120
Barium	551	10.0	"	500		110	80-120
Cadmium	5.62	0.100	"	5.00		112	80-120
Copper	52.5	10.0	"	50.0		105	80-120
Lead	5.25	1.00	"	5.00		105	80-120
Nickel	4.44	1.00	"	5.00		88.7	80-120
Selenium	9.77	0.260	"	9.50		103	80-120
Silver	5.41	0.100	"	5.00		108	80-120
Zinc	52.8	37.0	"	50.0		106	80-120

#### Matrix Spike (B4E1749-MS1)

Source: Y405563-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

**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
<b>Batch B4E1749 - EPA 3050B</b>										
<b>Matrix Spike (B4E1749-MS1)</b>			<b>Source: Y405563-01</b>		Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	7.06	0.262	mg/kg	4.52	1.72	118	75-125			
Barium	549	9.04	"	452	43.2	112	75-125			
Cadmium	5.05	0.0904	"	4.52	0.0686	110	75-125			
Copper	52.5	9.04	"	45.2	3.86	108	75-125			
Lead	10.5	0.904	"	4.52	6.15	95.5	75-125			
Nickel	8.36	0.904	"	4.52	3.34	111	75-125			
Selenium	8.44	0.235	"	8.59	0.0703	97.4	75-125			
Silver	4.90	0.0904	"	4.52	0.0137	108	75-125			
Zinc	69.1	33.5	"	45.2	16.6	116	75-125			
<b>Matrix Spike Dup (B4E1749-MSD1)</b>			<b>Source: Y405563-01</b>		Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	6.40	0.253	mg/kg	4.37	1.72	107	75-125	9.74	20	
Barium	525	8.74	"	437	43.2	110	75-125	4.33	20	
Cadmium	4.81	0.0874	"	4.37	0.0686	108	75-125	4.98	20	
Copper	50.1	8.74	"	43.7	3.86	106	75-125	4.74	20	
Lead	10.8	0.874	"	4.37	6.15	105	75-125	2.62	20	
Nickel	7.82	0.874	"	4.37	3.34	103	75-125	6.68	20	
Selenium	8.62	0.227	"	8.30	0.0703	103	75-125	2.10	20	
Silver	4.65	0.0874	"	4.37	0.0137	106	75-125	5.20	20	
Zinc	64.2	32.3	"	43.7	16.6	109	75-125	7.34	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

**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 B4E2032 - EPA 3580**

**Blank (B4E2032-BLK1)**

Prepared: 05/20/2024 Analyzed: 05/20/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

**LCS (B4E2032-BS1)**

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		102	70-130
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130
Acenaphthene	0.202	0.020	"	0.200		101	70-130
Anthracene	0.196	0.020	"	0.200		98.0	70-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

**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 B4E2032 - EPA 3580**

**LCS (B4E2032-BS1)**

Prepared: 05/20/2024 Analyzed: 05/21/2024

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (k) fluoranthene	0.219	0.020	"	0.200		110	70-130			
Chrysene	0.212	0.020	"	0.200		106	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		107	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Fluorene	0.207	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.2	70-130			
Naphthalene	0.203	0.002	"	0.200		102	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.210	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B4E2032-MS1)**

**Source: Y405520-01**

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.207	0.020	"	0.200	ND	103	70-130			
Anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.211	0.005	"	0.200	0.0007	105	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.219	0.020	"	0.200	0.0008	109	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

**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 B4E2032 - EPA 3580**

Matrix Spike (B4E2032-MS1)		Source: Y405520-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Benzo (k) fluoranthene	0.215	0.020	mg/kg	0.200	0.0009	107	70-130			
Chrysene	0.213	0.020	"	0.200	0.0006	106	70-130			
Dibenz (a,h) anthracene	0.232	0.020	"	0.200	ND	116	70-130			
Fluoranthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Fluorene	0.211	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.230	0.020	"	0.200	ND	115	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.9	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4E2032-MSD1)		Source: Y405520-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130	3.00	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	2.25	20	
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130	3.26	20	
Anthracene	0.213	0.020	"	0.200	ND	106	70-130	4.53	20	
Benzo (a) anthracene	0.218	0.005	"	0.200	0.0007	109	70-130	3.21	20	
Benzo (a) pyrene	0.218	0.020	"	0.200	ND	109	70-130	1.02	20	
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.0008	112	70-130	2.80	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	ND	103	70-130	1.59	20	
Benzo (k) fluoranthene	0.224	0.020	"	0.200	0.0009	111	70-130	3.98	20	
Chrysene	0.225	0.020	"	0.200	0.0006	112	70-130	5.67	20	
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	ND	116	70-130	0.390	20	
Fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	4.47	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

**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 B4E2032 - EPA 3580**

Matrix Spike Dup (B4E2032-MSD1)		Source: Y405520-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Fluorene	0.217	0.020	mg/kg	0.200	ND	108	70-130	2.89	20	
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130	0.0276	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	2.74	20	
Phenanthrene	0.215	0.020	"	0.200	ND	108	70-130	3.46	20	
Pyrene	0.224	0.020	"	0.200	ND	112	70-130	2.65	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

## 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 B4E2108 - DTPA Sorbitol Preparation

##### Blank (B4E2108-BLK1)

Prepared: 05/21/2024 Analyzed: 05/22/2024

Boron	ND	0.100	mg/L							Ua
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##### Duplicate (B4E2108-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/22/2024

Boron	0.183	0.0996	mg/L		0.173			6.16	50	
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#### Batch B4E2115 - Saturated Paste Metals

##### Blank (B4E2115-BLK1)

Prepared: 05/21/2024 Analyzed: 05/23/2024

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

##### Duplicate (B4E2115-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/23/2024

SAR	ND	0.0100	SAR		0.451				200	Ua
Calcium PPM	39.5	10.0	mg/L		37.7			4.79	50	
Magnesium PPM	9.42	10.0	"		9.73			3.24	50	Ua
Sodium PPM	12.0	10.0	"		12.0			0.417	50	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

## Saturated Paste - 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 B4E2121 - Saturated Paste pH/EC

##### Blank (B4E2121-BLK1)

Prepared: 05/21/2024 Analyzed: 05/22/2024

pH	0.00		pH Units							Ua
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua

##### Duplicate (B4E2121-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/22/2024

pH	8.17		pH Units		8.32			1.82	25	
Specific Conductance (EC)	0.348	0.00500	mmhos/cm		0.334			4.17	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02

## 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 2620905 - SW846 3060A										
BLANK (1205751398-BLK)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.293	mg/kg				-			U
LCS (1205751399-BKS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.77	0.281	mg/kg	2.81		98.6	80-120			
DUP (1205751400 D)					Source: 669686001 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	0.147	0.334	mg/kg dry		0.184		0-50	22.5	50	J
MS (1205751401 S)					Source: 669686001 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.74	0.334	mg/kg dry	3.34	0.184	76.5	75-125			
DUP (1205751402 D)					Source: 669718002 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.323	mg/kg dry		0.142		0-50	N/A	50	U
MS (1205751403 S)					Source: 669718002 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	3.05	0.323	mg/kg dry	3.23	0.142	89.8	75-125			
ILCS (1205751404-ILCS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	5.24	0.261	mg/kg	5.22		100	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Todd 20-02

### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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 on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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