

**Riverton Laboratory**

29 Country Acres Rd., Riverton, WY 82501  
(307) 856-0866 • [www.spl-inc.com](http://www.spl-inc.com)

**LABORATORY ANALYTICAL REPORT**

Customer Name: Verdad Oil

Order ID: 20010302

Project ID: Arnold

Report Date: 1/14/2020

Lab ID: 20010302-01

Date Time

Customer Sample ID: Sample #1

Collection 1/2/2020 12:15 PM

Matrix: Soil

Received: 1/3/2020 10:28 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
<b>Organic Compounds</b>							
Benzene	< 50	ug/Kg	50		EPA 8021 B	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (PID)	77.3	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (PID)	77.3	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (PID)	77.3	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (PID)	77.3	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (PID)	77.3	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	1/8/2020 16:47	TMC
Surr: 4-Bromofluorobenzene (FID)	95.0	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	93	mg/kg	5.0251		EPA 8015 D	1/9/2020 21:24	TMC
Surr: o-Terphenyl	70.1	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	93	mg/kg	5.5		EPA 8015 D	1/13/2020 10:54	JS

## Definitions:

ND-Not Detected at the reporting limit

S-Spike Recovery outside accepted recovery limits

D-Diluted out of recovery limits

RL-Analyte Reporting Limit

J-Analyte detected below quantitation limits

L-Analyzed by a contract laboratory

H-Holding times for preparation or analysis exceeded

M-Matrix Effect

Documentation will be kept for five (5) years.

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## LABORATORY ANALYTICAL REPORT

Customer Name: Verdad Oil

Order ID: 20011708

Project ID: Arnold

Report Date: 1/31/2020

Lab ID: 20011708-01

Date Time

Customer Sample ID: Arnold Sample 2

Collection 1/16/2020 2:45 PM

Matrix: Soil

Received: 1/17/2020 10:47 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
<b>Organic Compounds</b>							
Benzene	< 50	ug/Kg	50		EPA 8021 B	1/21/2020 6:13	TMC
Surr: 4-Bromofluorobenzene (PID)	92.6	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	1/21/2020 6:13	TMC
Surr: 4-Bromofluorobenzene (PID)	92.6	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	1/21/2020 6:13	TMC
Surr: 4-Bromofluorobenzene (PID)	92.6	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	1/21/2020 6:13	TMC
Surr: 4-Bromofluorobenzene (PID)	92.6	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	1/21/2020 6:13	TMC
Surr: 4-Bromofluorobenzene (PID)	92.6	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	1/21/2020 18:13	TMC
Surr: 4-Bromofluorobenzene (FID)	100.1	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	138	mg/kg	50		EPA 8015 D	1/30/2020 0:47	TMC
Surr: o-Terphenyl	92.3	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	138	mg/kg	5.5		EPA 8015 D	1/31/2020 9:09	TMC

**Definitions:**

ND-Not Detected at the reporting limit

S-Spike Recovery outside accepted recovery limits

D-Diluted out of recovery limits

RL-Analyte Reporting Limit

J-Analyte detected below quantitation limits

L-Analyzed by a contract laboratory

H-Holding times for preparation or analysis exceeded

M-Matrix Effect

Documentation will be kept for five (5) years.

## Login Report

**Customer Name:** Verdad Oil**Order ID:** 20010302**Project ID:** Arnold**Order Date:** 1/3/2020**Comment:**

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### SAMPLE CONDITION RECORD

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Number of cooler/packages received:	1
Number of bottles received:	4
Were the samples received intact? (no broken bottles, leaks, etc.)	Yes
Were the samples received with custody seals?	No
Were custody seals intact?	N/A
Did signature match?	N/A
Is the COC properly completed, legible, and signed?	Yes
Were all samples received accounted for on the COC?	Yes
Were all requested analyses understood and appropriate?	Yes
Did the bottle labels correspond with the COC information?	Yes
Were Samples collected in proper containers?	Yes
Were the Temp and Pressure recorded for cylinders?	N/A
Were all containers properly preserved, and pH checked - should be <=2?	Yes
Do VOA vials have <6mm headspace?	N/A
Was a trip blank present?	No
Were all analyses within holding time at time of receipt?	Yes
Have rush or project due dates been checked and accepted?	Yes
Login verification: Client Name:	Yes
Login verification: Project Name:	Yes
Login Verification: Matrix:	Yes
Sample/Cooler Temperature(s):	11.5



## Riverton Laboratory

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## Login Report

**Customer Name:** Verdad Oil

**Project ID:** Arnold

**Comment:**

**Order ID:** 20011708

**Order Date:** 1/17/2020

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### SAMPLE CONDITION RECORD

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Number of cooler/packages received:	1
Number of bottles received:	2
Were the samples received intact? (no broken bottles, leaks, etc.)	Yes
Were the samples received with custody seals?	No
Were custody seals intact?	N/A
Did signature match?	N/A
Is the COC properly completed, legible, and signed?	Yes
Were all samples received accounted for on the COC?	Yes
Were all requested analyses understood and appropriate?	Yes
Did the bottle labels correspond with the COC information?	Yes
Were Samples collected in proper containers?	Yes
Were the Temp and Pressure recorded for cylinders?	N/A
Were all containers properly preserved, and pH checked - should be $\leq 2$ ?	No
Do VOA vials have $< 6$ mm headspace?	N/A
Was a trip blank present?	No
Were all analyses within holding time at time of receipt?	Yes
Have rush or project due dates been checked and accepted?	Yes
Login verification: Client Name:	Yes
Login verification: Project Name:	Yes
Login Verification: Matrix:	Yes
Sample/Cooler Temperature(s):	11.3
Were cylinder valves leaking?	N/A
Were pressurized liquid samples collected at a rate of $< 50$ ml/min?	N/A



## Chain of Custody & Analytical Request Record

Therm #2

Receipt Temperature ( $^{\circ}\text{C}$ ) 115

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