

**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  
Project ID: Ptasnik 1-30

Order ID: 20041410  
Report Date: 4/24/2020

Lab ID: 20041410-01

Date Time

Customer Sample ID: Background

Collection: 4/8/2020 3:45 PM

Matrix: Soil

Received: 4/14/2020 11:40 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
<b>Other Parameters</b>							
pH	8.61	s.u.	0.01		EPA 9045 D	4/15/2020 16:40	JS
Conductivity	221	µS/cm	5		SM 2510 B	4/15/2020 16:10	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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(307) 856-0866 • [www.spl-inc.com](http://www.spl-inc.com)**LABORATORY ANALYTICAL REPORT**Customer Name: Verdad Oil  
Project ID: Ptasnik 1-30Order ID: 20041410  
Report Date: 4/24/2020

Lab ID: 20041410-02

Date Time

Customer Sample ID: Sample 1

Collection: 4/8/2020 3:40 PM

Matrix: Soil

Received: 4/14/2020 11:40 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
<b>Organic Compounds</b>							
Benzene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (PID)	95.5	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (PID)	95.5	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (PID)	95.5	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (PID)	95.5	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (PID)	95.5	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	4/16/2020 19:05	TMC
Surr: 4-Bromofluorobenzene (FID)	100.0	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	64	mg/kg	50		EPA 8015 D	4/21/2020 2:54	TMC
Surr: o-Terphenyl	108.0	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	64	mg/kg	5.5		EPA 8015 D	4/22/2020 8:21	MAB
<b>Other Parameters:</b>							
pH	8.51	s.u.	0.01		EPA 9045 D	4/15/2020 16:40	JS
Conductivity	161	µS/cm	5		SM 2510 B	4/15/2020 16:10	JS

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Project ID: Ptasnik 1-30Order ID: 20041410  
Report Date: 4/24/2020

Lab ID: 20041410-03

Date Time

Customer Sample ID: Sample 2

Collection: 4/8/2020 3:43 PM

Matrix: Soil

Received: 4/14/2020 11:40 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
<b>Organic Compounds</b>							
Benzene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (PID)	85.6	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (PID)	85.6	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (PID)	85.6	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (PID)	85.6	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (PID)	85.6	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	4/16/2020 21:26	TMC
Surr: 4-Bromofluorobenzene (FID)	96.8	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	57	mg/kg	50		EPA 8015 D	4/21/2020 6:31	TMC
Surr: o-Terphenyl	107.5	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	57	mg/kg	5.5		EPA 8015 D	4/22/2020 8:21	MAB
<b>Other Parameters:</b>							
pH	8.46	s.u.	0.01		EPA 9045 D	4/15/2020 16:40	JS
Conductivity	145	µS/cm	5		SM 2510 B	4/15/2020 16:10	JS

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## Login Report

**Customer Name:** Verdad Oil

**Project ID:** Ptasnik 1-30

**Comment:**

**Order ID:** 20041410

**Order Date:** 4/14/2020

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### SAMPLE CONDITION RECORD

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Number of cooler/packages received:	1
Number of bottles received:	5
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 $\leq 2$ ?	N/A
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):	7.6
Were cylinder valves leaking?	N/A
Were pressurized liquid samples collected at a rate of $< 50$ ml/min?	N/A

