

LABORATORY ANALYTICAL REPORT

Customer Name: Verdad Oil	Order ID: 19072414	
Project ID: Jackson Soil Samples	Report Date: 8/6/2019	

Lab ID: 19072414-01	Date	Time
Customer Sample ID: Sample #1	Collection 7/22/2019	3:30 PM
Matrix: Soil	Received: 7/24/2019	4:18 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Organic Compounds							
Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (PID)	87.9	%	70-130		EPA 8021 B		
Toluene	470	ug/Kg	50		EPA 8021 B	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (PID)	87.9	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (PID)	87.9	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (PID)	87.9	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (PID)	87.9	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	6266	ug/Kg	5500		EPA 8015 D	7/25/2019 14:27	TMC
Surr: 4-Bromofluorobenzene (FID)	99.5	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	105	mg/kg	50		EPA 8015 D	7/26/2019 18:28	TMC
Surr: o-Terphenyl	96.8	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	111	mg/kg	5.5		EPA 8015 D	8/5/2019 13:10	JS
Other Paramters							
pH	8.37	s.u.	0.01		EPA 9045 D	8/2/2019 15:30	JS
Conductivity	775	µS/cm	5		SM 2510 B	8/2/2019 14:50	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.

LABORATORY ANALYTICAL REPORT

Customer Name: Verdad Oil	Order ID: 19072414	
Project ID: Jackson Soil Samples	Report Date: 8/6/2019	

Lab ID: 19072414-02	Date	Time
Customer Sample ID: Sample #2	Collection: 7/22/2019	3:33 PM
Matrix: Soil	Received: 7/24/2019	4:18 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Organic Compounds							
Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (PID)	90.2	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (PID)	90.2	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (PID)	90.2	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (PID)	90.2	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (PID)	90.2	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	7/25/2019 16:52	TMC
Surr: 4-Bromofluorobenzene (FID)	99.9	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	73	mg/kg	50		EPA 8015 D	7/26/2019 19:40	TMC
Surr: o-Terphenyl	98.6	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	73	mg/kg	5.5		EPA 8015 D	8/5/2019 13:10	JS
Other Parameters							
pH	8.39	s.u.	0.01		EPA 9045 D	8/2/2019 15:30	JS
Conductivity	968	µS/cm	5		SM 2510 B	8/2/2019 14:50	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	

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LABORATORY ANALYTICAL REPORT

Customer Name: Verdad Oil	Order ID: 19072414
Project ID: Jackson Soil Samples	Report Date: 8/6/2019

Lab ID: 19072414-03	Date	Time
Customer Sample ID: Sample #3	Collection: 7/22/2019	3:35 PM
Matrix: Soil	Received: 7/24/2019	4:18 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Organic Compounds							
Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (PID)	80.6	%	70-130		EPA 8021 B		
Toluene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (PID)	80.6	%	70-130		EPA 8021 B		
Ethyl Benzene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (PID)	80.6	%	70-130		EPA 8021 B		
m,p-Xylene	< 100	ug/Kg	100		EPA 8021 B	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (PID)	80.6	%	70-130		EPA 8021 B		
o Xylene	< 50	ug/Kg	50		EPA 8021 B	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (PID)	80.6	%	70-130		EPA 8021 B		
Gasoline Range Organics (GRO)	< 5500	ug/Kg	5500		EPA 8015 D	7/25/2019 17:25	TMC
Surr: 4-Bromofluorobenzene (FID)	97.4	%	70-130		EPA 8015 D		
Diesel Range Organics (DRO)	69	mg/kg	50		EPA 8015 D	7/26/2019 20:16	TMC
Surr: o-Terphenyl	98.0	%	70-130		EPA 8015 D		
Total Petroleum Hydrocarbons	69	mg/kg	5.5		EPA 8015 D	8/5/2019 13:10	JS
Other Parameters							
pH	8.31	s.u.	0.01		EPA 9045 D	8/2/2019 15:30	JS
Conductivity	420	µS/cm	5		SM 2510 B	8/2/2019 14:50	JS

Definitions:

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H-Holding times for preparation or analysis exceeded	M-Matrix Effect	

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Login Report

Customer Name: Verdad Oil

Order ID: 19072414

Project ID: Jackson Soil Samples

Order Date: 7/24/2019

Comment:

SAMPLE CONDITION RECORD

Number of cooler/packages received:	1
Number of bottles received:	3
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?	No
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):	13.8
Were cylinder valves leaking?	N/A
Were pressurized liquid samples collected at a rate of <50 ml/min?	N/A

