



19-Jul-2016

Kris Rowe
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Terra Energy - TR 24-28-597- Landfarm**

Work Order: **1607918**

Dear Kris,

ALS Environmental received 1 sample on 16-Jul-2016 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental ALS Environmental logo icon.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597- Landfarm
Work Order: 1607918

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1607918-01	Landfarm - Bottom Tier	Soil		7/15/2016 09:30	7/16/2016 09:45	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597- Landfarm
WorkOrder: 1607918

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 19-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597- Landfarm
Sample ID: Landfarm - Bottom Tier
Collection Date: 7/15/2016 09:30 AM

Work Order: 1607918
Lab ID: 1607918-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 7/18/16	Analyst: RM
DRO (C10-C28)	580		10	mg/Kg-dry	1	7/19/2016 03:26 AM
<i>Surr: 4-Terphenyl-d14</i>	68.5		39-133	%REC	1	7/19/2016 03:26 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/18/16	Analyst: RM
GRO (C6-C10)	39		3.8	mg/Kg-dry	1	7/19/2016 01:10 PM
<i>Surr: Toluene-d8</i>	108		50-150	%REC	1	7/19/2016 01:10 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	21		0.050	% of sample	1	7/16/2016 01:30 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions, Inc
Work Order: 1607918
Project: Terra Energy - TR 24-28-597- Landfarm

QC BATCH REPORT

Batch ID: **88719** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-88719-88719				Units: mg/Kg		Analysis Date: 7/18/2016 08:27 PM		
Client ID:		Run ID: GC8_160718A		SeqNo: 3930573		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	8.3								
<i>Surr: 4-Terphenyl-d14</i>	2.31	0	3.333	0	69.3	39-133	0			

LCS		Sample ID: DLCSS1-88719-88719				Units: mg/Kg		Analysis Date: 7/18/2016 08:57 PM		
Client ID:		Run ID: GC8_160718A		SeqNo: 3930574		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	266.7	8.3	333.3	0	80	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	2.095	0	3.333	0	62.9	39-133	0			

MS		Sample ID: 1607695-01A MS				Units: mg/Kg		Analysis Date: 7/18/2016 09:27 PM		
Client ID:		Run ID: GC8_160718A		SeqNo: 3930575		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	245.7	8.3	332.4	32.28	64.2	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.191	0	3.324	0	65.9	39-133	0			

MSD		Sample ID: 1607695-01A MSD				Units: mg/Kg		Analysis Date: 7/18/2016 09:57 PM		
Client ID:		Run ID: GC8_160718A		SeqNo: 3930576		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	237.6	8.1	322.8	32.28	63.6	48-110	245.7	3.36	30	
<i>Surr: 4-Terphenyl-d14</i>	1.993	0	3.228	0	61.7	39-133	2.191	9.46	30	

The following samples were analyzed in this batch: 1607918-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1607918
Project: Terra Energy - TR 24-28-597- Landfarm

QC BATCH REPORT

Batch ID: **88770** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-88770-88770				Units: µg/Kg-dry		Analysis Date: 7/19/2016 11:56 AM		
Client ID:		Run ID: GC9_160719A		SeqNo: 3930679		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>5209</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>104</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-88770-88770				Units: µg/Kg-dry		Analysis Date: 7/19/2016 10:54 AM		
Client ID:		Run ID: GC9_160719A		SeqNo: 3930678		Prep Date: 7/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	402600	2,500	500000	0	80.5	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4458</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>89.2</i>	<i>50-150</i>	<i>0</i>			

The following samples were analyzed in this batch: | 1607918-01A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1607918
Project: Terra Energy - TR 24-28-597- Landfarm

QC BATCH REPORT

Batch ID: **R191727** Instrument ID **MOIST** Method: **SW3550C**

MBLK	Sample ID: WBLKS-R191727				Units: % of sample			Analysis Date: 7/16/2016 01:30 PM		
Client ID:	Run ID: MOIST_160716A			SeqNo: 3928118		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R191727				Units: % of sample			Analysis Date: 7/16/2016 01:30 PM		
Client ID:	Run ID: MOIST_160716A			SeqNo: 3928117		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1607910-01B DUP				Units: % of sample			Analysis Date: 7/16/2016 01:30 PM		
Client ID:	Run ID: MOIST_160716A			SeqNo: 3928104		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.67 0.050 0 0 0 13.4 1.99 20

DUP	Sample ID: 1607914-01A DUP				Units: % of sample			Analysis Date: 7/16/2016 01:30 PM		
Client ID:	Run ID: MOIST_160716A			SeqNo: 3928110		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 25.57 0.050 0 0 0 24.23 5.38 20

The following samples were analyzed in this batch: 1607918-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ORIGIN ID: RILA (010) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST. ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 15 JUL 16
ACTWGT: 41.00 LB
CAD: 2264840/NET3730
DIMS: 13x18x18 IN

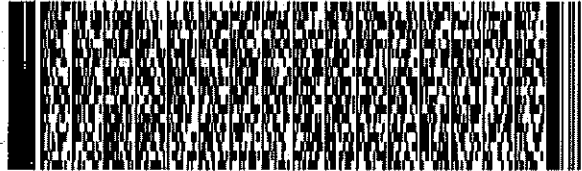
BILL SENDER

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

HOLLAND MI 49424

(010) 398-8070 REF: 071516-1
NV DEPT:
PO: PARACHUTE

540U16C8D7ZF



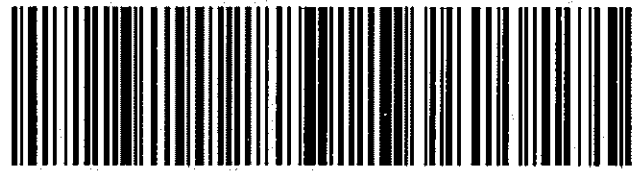
REL#
3785346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK#
0201 **7767 6929 7817**

X0 HLMA

49424
MI-US **GRR**



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Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **16-Jul-16 09:45**

Work Order: **1607918**

Received by: **MEB**

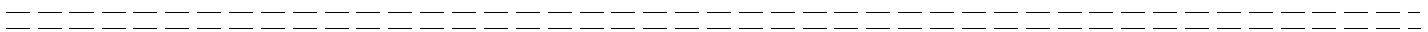
Checklist completed by Meghan Broadbent 16-Jul-16
eSignature Date

Reviewed by: Chad Whilton 18-Jul-16
eSignature Date

Matrices: soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2/4.2</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>7/16/2016 11:06:02 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u> </u>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction: