



22-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: **16071176**

Dear Kris,

ALS Environmental received 3 samples on 21-Jul-2016 09:00 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 12.

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

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Work Order: 16071176

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>
16071176-01	Landfarm - South End	Soil		7/20/2016 14:45	7/21/2016 09:00	<input type="checkbox"/>
16071176-02	Landfarm - North End	Soil		7/20/2016 14:30	7/21/2016 09:00	<input type="checkbox"/>
16071176-03	Landfarm - Bottom Tier	Soil		7/20/2016 15:00	7/21/2016 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
WorkOrder: 16071176

**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
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 22-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm - South End
Collection Date: 7/20/2016 02:45 PM

Work Order: 16071176
Lab ID: 16071176-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 7/21/16	Analyst: RM
DRO (C10-C28)	310		9.4	mg/Kg-dry	1	7/22/2016 12:22 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>56.1</i>		<i>39-133</i>	<i>%REC</i>	1	7/22/2016 12:22 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/21/16	Analyst: RM
GRO (C6-C10)	ND		3,500	µg/Kg-dry	1	7/22/2016 12:59 PM
<i>Surr: Toluene-d8</i>	<i>97.1</i>		<i>50-150</i>	<i>%REC</i>	1	7/22/2016 12:59 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	16		0.050	% of sample	1	7/21/2016 04:04 PM

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

ALS Group USA, Corp

Date: 22-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm - North End
Collection Date: 7/20/2016 02:30 PM

Work Order: 16071176
Lab ID: 16071176-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 7/21/16	Analyst: RM
DRO (C10-C28)	480		10	mg/Kg-dry	1	7/22/2016 12:52 PM
<i>Surr: 4-Terphenyl-d14</i>	59.5		39-133	%REC	1	7/22/2016 12:52 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/21/16	Analyst: RM
GRO (C6-C10)	ND		3,700	µg/Kg-dry	1	7/22/2016 01:24 PM
<i>Surr: Toluene-d8</i>	99.0		50-150	%REC	1	7/22/2016 01:24 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	19		0.050	% of sample	1	7/21/2016 04:04 PM

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

ALS Group USA, Corp

Date: 22-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm - Bottom Tier
Collection Date: 7/20/2016 03:00 PM

Work Order: 16071176
Lab ID: 16071176-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 7/21/16	Analyst: RM
DRO (C10-C28)	500		10	mg/Kg-dry	1	7/22/2016 01:22 PM
<i>Surr: 4-Terphenyl-d14</i>	65.8		39-133	%REC	1	7/22/2016 01:22 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/21/16	Analyst: RM
GRO (C6-C10)	ND		3,700	µg/Kg-dry	1	7/22/2016 01:49 PM
<i>Surr: Toluene-d8</i>	98.6		50-150	%REC	1	7/22/2016 01:49 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	19		0.050	% of sample	1	7/21/2016 04:04 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 16071176
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88939** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-88939-88939				Units: mg/Kg		Analysis Date: 7/22/2016 09:53 AM		
Client ID:		Run ID: GC8_160722A		SeqNo: 3938474		Prep Date: 7/21/2016		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>	2.3	0	3.333	0	69	39-133	0			

LCS		Sample ID: DLCSS1-88939-88939				Units: mg/Kg		Analysis Date: 7/22/2016 10:22 AM		
Client ID:		Run ID: GC8_160722A		SeqNo: 3938475		Prep Date: 7/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	287.6	8.3	333.3	0	86.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	2.201	0	3.333	0	66	39-133	0			

MS		Sample ID: 16071107-03B MS				Units: mg/Kg		Analysis Date: 7/22/2016 10:53 AM		
Client ID:		Run ID: GC8_160722A		SeqNo: 3938476		Prep Date: 7/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	329.8	7.8	313.6	67.06	83.8	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.916	0	3.136	0	61.1	39-133	0			

MSD		Sample ID: 16071107-03B MSD				Units: mg/Kg		Analysis Date: 7/22/2016 11:22 AM		
Client ID:		Run ID: GC8_160722A		SeqNo: 3938477		Prep Date: 7/21/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	337.3	8.0	319.9	67.06	84.5	48-110	329.8	2.27	30	
<i>Surr: 4-Terphenyl-d14</i>	1.971	0	3.199	0	61.6	39-133	1.916	2.85	30	

The following samples were analyzed in this batch:

16071176-01A	16071176-02A	16071176-03A
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Client: HRL Compliance Solutions, Inc
 Work Order: 16071176
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88929** Instrument ID **GC9** Method: **SW8015D**

MBLK	Sample ID: MBLK-88929-88929		Units: µg/Kg-dry		Analysis Date: 7/22/2016 11:44 AM					
Client ID:	Run ID: GC9_160722A		SeqNo: 3938576		Prep Date: 7/21/2016 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>	4822	0	5000	0	96.4	50-150	0			

LCS	Sample ID: LCS-88929-88929		Units: µg/Kg-dry		Analysis Date: 7/22/2016 10:53 AM					
Client ID:	Run ID: GC9_160722A		SeqNo: 3938575		Prep Date: 7/21/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	431000	2,500	500000	0	86.2	70-130	0			
<i>Surr: Toluene-d8</i>	4836	0	5000	0	96.7	50-150	0			

MS	Sample ID: 16071107-02A MS		Units: µg/Kg-dry		Analysis Date: 7/22/2016 02:39 PM					
Client ID:	Run ID: GC9_160722A		SeqNo: 3938582		Prep Date: 7/21/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	847300	4,100	815800	147000	85.8	70-130	0			
<i>Surr: Toluene-d8</i>	5631	0	8158	0	69	50-150	0			

MSD	Sample ID: 16071107-02A MSD		Units: µg/Kg-dry		Analysis Date: 7/22/2016 03:04 PM					
Client ID:	Run ID: GC9_160722A		SeqNo: 3938583		Prep Date: 7/21/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	802300	4,100	815800	147000	80.3	70-130	847300	5.45	30	
<i>Surr: Toluene-d8</i>	5054	0	8158	0	62	50-150	5631	10.8	30	

The following samples were analyzed in this batch:

16071176-01A	16071176-02A	16071176-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Do Not Lift Using This Tag

ORIGIN ID:GJTA (970) 243-3271
KRIS ROWE
2385 F 1/2 RD
GRAND JUNCTION, CO 81505
UNITED STATES US

SHIP DATE: 20JUL16
ACTWGT: 17.20 LB
CAD: 006894171/SSFE1704
DIMS: 19x10x17 IN
BILL THIRD PARTY

Part # 15629 1405 4002-2015

TO **ALS GROUP**

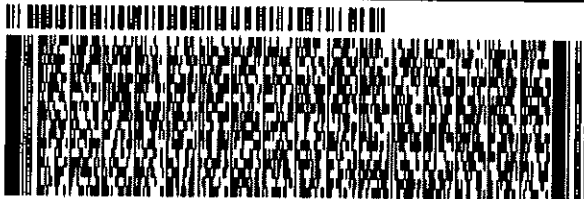
3352 128TH AVE

HOLLAND MI 49424

(810) 899-6070

REF:

DEPT:



FedEx
Express



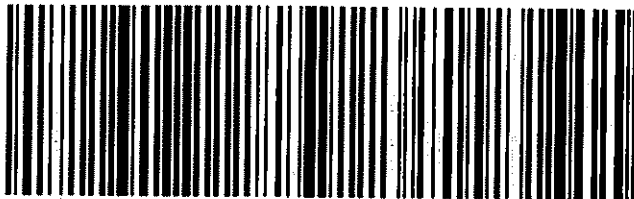
REL#
3786346

TRK#
0201 7836 2824 6789

THU - 21 JUL 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
MI-US GRR



Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-Jul-16 09:00**

Work Order: **16071176**

Received by: **DS**

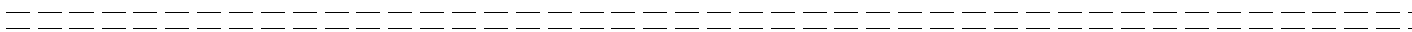
Checklist completed by Diane Shaw 21-Jul-16
eSignature Date

Reviewed by: Chad Whelton 21-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>4.0/4.0 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>7/21/2016 11:01:06 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: