



20-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: **1607606**

Dear Kris,

ALS Environmental received 2 samples on 13-Jul-2016 10:30 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 23.

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

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Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Work Order: 1607606

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>
1607606-01	Landfarm- South End	Soil		7/11/2016 09:30	7/13/2016 10:30	<input type="checkbox"/>
1607606-02	Landfarm- North End	Soil		7/11/2016 09:15	7/13/2016 10:30	<input type="checkbox"/>

<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
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 20-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm- South End
Collection Date: 7/11/2016 09:30 AM

Work Order: 1607606
Lab ID: 1607606-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3550 / 7/13/16	Analyst: IT
DRO (C10-C28)	300		5.3	mg/Kg-dry	1	7/14/2016 04:12 AM
<i>Surr: 4-Terphenyl-d14</i>	73.2		39-133	%REC	1	7/14/2016 04:12 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/13/16	Analyst: IT
GRO (C6-C10)	120		3.8	mg/Kg-dry	1	7/13/2016 03:20 PM
<i>Surr: Toluene-d8</i>	107		50-150	%REC	1	7/13/2016 03:20 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 7/13/16	Analyst: LR
Mercury	0.042		0.018	mg/Kg-dry	1	7/13/2016 07:09 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 7/15/16	Analyst: JEC
Arsenic	12		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Barium	470		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Cadmium	ND		0.89	mg/Kg-dry	1	7/15/2016 08:16 PM
Chromium	28		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Copper	24		0.89	mg/Kg-dry	1	7/15/2016 08:16 PM
Lead	14		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Nickel	30		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Selenium	ND		0.89	mg/Kg-dry	1	7/15/2016 08:16 PM
Silver	ND		0.45	mg/Kg-dry	1	7/15/2016 08:16 PM
Zinc	74		0.89	mg/Kg-dry	1	7/15/2016 08:16 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 7/18/16	Analyst: JEC
Calcium	220		5.0	mg/L	10	7/18/2016 09:05 PM
Magnesium	45		2.0	mg/L	10	7/18/2016 09:05 PM
Sodium	700		2.0	mg/L	10	7/19/2016 02:56 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 7/18/16	Analyst: JEC
Sodium Adsorption Ratio	11		0.010	none	1	7/19/2016
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3550 / 7/13/16	Analyst: RM
Acenaphthene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Anthracene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Benzo(a)anthracene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Benzo(a)pyrene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Benzo(b)fluoranthene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Benzo(k)fluoranthene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Chrysene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Dibenzo(a,h)anthracene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Fluoranthene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM

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

ALS Group USA, Corp

Date: 20-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm- South End
Collection Date: 7/11/2016 09:30 AM

Work Order: 1607606
Lab ID: 1607606-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.038		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Indeno(1,2,3-cd)pyrene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Naphthalene	0.018		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Pyrene	ND		0.0085	mg/Kg-dry	1	7/14/2016 01:25 AM
Surr: 2-Fluorobiphenyl	81.7		12-100	%REC	1	7/14/2016 01:25 AM
Surr: 4-Terphenyl-d14	90.3		25-137	%REC	1	7/14/2016 01:25 AM
Surr: Nitrobenzene-d5	77.6		37-107	%REC	1	7/14/2016 01:25 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 7/13/16	Analyst: LSY
Benzene	ND		0.030	mg/Kg-dry	1	7/13/2016 03:03 PM
Ethylbenzene	ND		0.030	mg/Kg-dry	1	7/13/2016 03:03 PM
m,p-Xylene	0.11		0.060	mg/Kg-dry	1	7/13/2016 03:03 PM
o-Xylene	ND		0.030	mg/Kg-dry	1	7/13/2016 03:03 PM
Toluene	ND		0.030	mg/Kg-dry	1	7/13/2016 03:03 PM
Xylenes, Total	0.11		0.090	mg/Kg-dry	1	7/13/2016 03:03 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	7/13/2016 03:03 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	7/13/2016 03:03 PM
Surr: Dibromofluoromethane	95.8		70-130	%REC	1	7/13/2016 03:03 PM
Surr: Toluene-d8	96.2		70-130	%REC	1	7/13/2016 03:03 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 7/18/16	Analyst: JB
Electrical Conductivity @ Saturation	6.0		0.050	mmhos/cm @2	10	7/18/2016 01:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	28		0.64	mg/Kg-dry	1	7/19/2016 04:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 7/13/16	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/14/2016 03:30 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	21		0.050	% of sample	1	7/13/2016 01:45 PM
PH			SW9045D		Prep: EXTRACT / 7/13/16	Analyst: KF
pH	8.3			s.u.	1	7/13/2016 06:07 PM

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

ALS Group USA, Corp

Date: 20-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm- North End
Collection Date: 7/11/2016 09:15 AM

Work Order: 1607606
Lab ID: 1607606-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 7/13/16	Analyst: IT
DRO (C10-C28)	160		5.1	mg/Kg-dry	1	7/14/2016 04:42 AM
<i>Surr: 4-Terphenyl-d14</i>	74.2		39-133	%REC	1	7/14/2016 04:42 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 7/13/16	Analyst: IT
GRO (C6-C10)	700		3.7	mg/Kg-dry	1	7/13/2016 03:45 PM
<i>Surr: Toluene-d8</i>	95.3		50-150	%REC	1	7/13/2016 03:45 PM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 7/13/16	Analyst: LR
Mercury	0.041		0.018	mg/Kg-dry	1	7/13/2016 07:11 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 7/15/16	Analyst: JEC
Arsenic	12		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Barium	460		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Cadmium	ND		0.82	mg/Kg-dry	1	7/15/2016 08:22 PM
Chromium	23		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Copper	22		0.82	mg/Kg-dry	1	7/15/2016 08:22 PM
Lead	12		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Nickel	26		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Selenium	ND		0.82	mg/Kg-dry	1	7/15/2016 08:22 PM
Silver	ND		0.41	mg/Kg-dry	1	7/15/2016 08:22 PM
Zinc	66		0.82	mg/Kg-dry	1	7/15/2016 08:22 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 7/18/16	Analyst: JEC
Calcium	140		5.0	mg/L	10	7/18/2016 09:10 PM
Magnesium	30		2.0	mg/L	10	7/18/2016 09:10 PM
Sodium	560		2.0	mg/L	10	7/19/2016 03:02 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 7/18/16	Analyst: JEC
Sodium Adsorption Ratio	11		0.010	none	1	7/19/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3550 / 7/13/16	Analyst: RM
Acenaphthene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Anthracene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Benzo(a)anthracene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Benzo(a)pyrene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Benzo(b)fluoranthene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Benzo(k)fluoranthene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Chrysene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Dibenzo(a,h)anthracene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Fluoranthene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM

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

ALS Group USA, Corp

Date: 20-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Landfarm
Sample ID: Landfarm- North End
Collection Date: 7/11/2016 09:15 AM

Work Order: 1607606
Lab ID: 1607606-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.015		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Indeno(1,2,3-cd)pyrene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Naphthalene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Pyrene	ND		0.0081	mg/Kg-dry	1	7/14/2016 01:45 AM
Surr: 2-Fluorobiphenyl	74.1		12-100	%REC	1	7/14/2016 01:45 AM
Surr: 4-Terphenyl-d14	92.1		25-137	%REC	1	7/14/2016 01:45 AM
Surr: Nitrobenzene-d5	66.0		37-107	%REC	1	7/14/2016 01:45 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 7/13/16	Analyst: LSY
Benzene	ND		0.030	mg/Kg-dry	1	7/13/2016 03:28 PM
Ethylbenzene	0.39		0.030	mg/Kg-dry	1	7/13/2016 03:28 PM
m,p-Xylene	7.8		0.060	mg/Kg-dry	1	7/13/2016 03:28 PM
o-Xylene	1.5		0.030	mg/Kg-dry	1	7/13/2016 03:28 PM
Toluene	0.97		0.030	mg/Kg-dry	1	7/13/2016 03:28 PM
Xylenes, Total	9.3		0.090	mg/Kg-dry	1	7/13/2016 03:28 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	7/13/2016 03:28 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/13/2016 03:28 PM
Surr: Dibromofluoromethane	95.7		70-130	%REC	1	7/13/2016 03:28 PM
Surr: Toluene-d8	115		70-130	%REC	1	7/13/2016 03:28 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 7/18/16	Analyst: JB
Electrical Conductivity @ Saturation	4.4		0.050	mmhos/cm @2	10	7/18/2016 01:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	23		0.62	mg/Kg-dry	1	7/19/2016 04:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 7/13/16	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/14/2016 03:30 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	19		0.050	% of sample	1	7/13/2016 01:45 PM
PH			SW9045D		Prep: EXTRACT / 7/13/16	Analyst: KF
pH	8.4			s.u.	1	7/13/2016 06:07 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1607606

Project: Terra Energy - TR 24-28-597 - Landfarm

Batch ID: **88542** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-88542-88542				Units: mg/Kg		Analysis Date: 7/14/2016 01:42 AM		
Client ID:		Run ID: GC8_160713C		SeqNo: 3922652		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.664	0	2	0	83.2	39-133	0			

LCS		Sample ID: DLCSS1-88542-88542				Units: mg/Kg		Analysis Date: 7/14/2016 02:12 AM		
Client ID:		Run ID: GC8_160713C		SeqNo: 3922653		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	175.7	5.0	200	0	87.8	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.314	0	2	0	65.7	39-133	0			

MS		Sample ID: 1607608-03A MS				Units: mg/Kg		Analysis Date: 7/14/2016 02:42 AM		
Client ID:		Run ID: GC8_160713C		SeqNo: 3922654		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	137.1	4.1	164.2	18.57	72.2	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.161	0	1.642	0	70.7	39-133	0			

MSD		Sample ID: 1607608-03A MSD				Units: mg/Kg		Analysis Date: 7/14/2016 03:12 AM		
Client ID:		Run ID: GC8_160713C		SeqNo: 3922655		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	136.2	4.1	166	18.57	70.8	48-110	137.1	0.667	30	
<i>Surr: 4-Terphenyl-d14</i>	1.141	0	1.66	0	68.7	39-133	1.161	1.74	30	

The following samples were analyzed in this batch:

1607606-01A	1607606-02A
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Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88550** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-88550-88550				Units: µg/Kg-dry		Analysis Date: 7/13/2016 02:31 PM		
Client ID:		Run ID: GC9_160713A		SeqNo: 3921706		Prep Date: 7/13/2016		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>	5077	0	5000	0	102	50-150	0			

LCS		Sample ID: LCS-88550-88550				Units: µg/Kg-dry		Analysis Date: 7/13/2016 04:10 PM		
Client ID:		Run ID: GC9_160713A		SeqNo: 3921709		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	519100	2,500	500000	0	104	70-130	0			
<i>Surr: Toluene-d8</i>	5110	0	5000	0	102	50-150	0			

MS		Sample ID: 1607608-01A MS				Units: µg/Kg-dry		Analysis Date: 7/13/2016 07:31 PM		
Client ID:		Run ID: GC9_160713A		SeqNo: 3922622		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	672800	3,600	719500	0	93.5	70-130	0			
<i>Surr: Toluene-d8</i>	7192	0	7195	0	100	50-150	0			

MSD		Sample ID: 1607608-01A MSD				Units: µg/Kg-dry		Analysis Date: 7/13/2016 07:56 PM		
Client ID:		Run ID: GC9_160713A		SeqNo: 3922623		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	676000	3,600	719500	0	93.9	70-130	672800	0.474	30	
<i>Surr: Toluene-d8</i>	7547	0	7195	0	105	50-150	7192	4.81	30	

The following samples were analyzed in this batch:

1607606-01A	1607606-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88537** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-88537-88537				Units: mg/Kg		Analysis Date: 7/13/2016 06:15 PM		
Client ID:		Run ID: HG1_160713A			SeqNo: 3922157		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-88537-88537				Units: mg/Kg		Analysis Date: 7/13/2016 06:17 PM		
Client ID:		Run ID: HG1_160713A			SeqNo: 3922158		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1933 0.020 0.1665 0 116 80-120 0

MS		Sample ID: 1607520-12BMS				Units: mg/Kg		Analysis Date: 7/13/2016 06:55 PM		
Client ID:		Run ID: HG1_160713A			SeqNo: 3922175		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1609 0.013 0.1112 0.02701 120 75-125 0

MSD		Sample ID: 1607520-12BMSD				Units: mg/Kg		Analysis Date: 7/13/2016 07:04 PM		
Client ID:		Run ID: HG1_160713A			SeqNo: 3922179		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1549 0.013 0.1098 0.02701 117 75-125 0.1609 3.78 35

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88562** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1607687-04BDUP				Units: mg/L		Analysis Date: 7/18/2016 10:35 PM		
Client ID:		Run ID: ICP2_160718A			SeqNo: 3929321		Prep Date: 7/18/2016		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	138.6	5.0	0	0	0	0-0	150.8	8.39		
Magnesium	27.82	2.0	0	0	0	0-0	29.98	7.45		
Sodium	47.36	2.0	0	0	0	0-0	51.84	9.03		

DUP		Sample ID: 1607687-04BDUP				Units: none		Analysis Date: 7/19/2016		
Client ID:		Run ID: SAR_160719A			SeqNo: 3931063		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
Sodium Adsorption Ratio	0.96	0.010	0	0	0		1.009	4.96	50	

The following samples were analyzed in this batch: | 1607606-01A 1607606-02A |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88649** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-88649-88649				Units: mg/Kg		Analysis Date: 7/15/2016 08:00 PM		
Client ID:		Run ID: ICP2_160715A			SeqNo: 3926461		Prep Date: 7/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.02475	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.1295	0.50								J

LCS		Sample ID: LCS-88649-88649				Units: mg/Kg		Analysis Date: 7/15/2016 08:05 PM		
Client ID:		Run ID: ICP2_160715A			SeqNo: 3926462		Prep Date: 7/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.085	0.25	5	0	102	80-120	0			
Barium	4.661	0.25	5	0	93.2	80-120	0			
Cadmium	5.043	0.50	5	0	101	80-120	0			
Chromium	5.384	0.25	5	0	108	80-120	0			
Copper	5.208	0.50	5	0	104	80-120	0			
Lead	4.897	0.25	5	0	97.9	80-120	0			
Nickel	5.022	0.25	5	0	100	80-120	0			
Selenium	4.875	0.50	5	0	97.5	80-120	0			
Silver	5.037	0.25	5	0	101	80-120	0			
Zinc	5.083	0.50	5	0	102	80-120	0			

MS		Sample ID: 1607608-03AMS				Units: mg/Kg		Analysis Date: 7/18/2016 07:24 PM		
Client ID:		Run ID: ICP2_160718A			SeqNo: 3929269		Prep Date: 7/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	11.22	0.79	7.937	0.6164	134	75-125	0			S
Copper	32.78	0.79	7.937	22.57	129	75-125	0			S
Nickel	34.64	0.40	7.937	25.45	116	75-125	0			
Silver	9.163	0.40	7.937	-0.1227	117	75-125	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88649** Instrument ID **ICP2** Method: **SW846 6010C**

MS		Sample ID: 1607608-03AMS				Units: mg/Kg		Analysis Date: 7/19/2016 01:02 PM		
Client ID:		Run ID: ICP2_160719A			SeqNo: 3930328		Prep Date: 7/15/2016		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	24.46	2.0	7.937	13.34	140	75-125	0			S
Chromium	41.15	2.0	7.937	25.51	197	75-125	0			S
Lead	21.53	2.0	7.937	12.73	111	75-125	0			
Selenium	9.226	4.0	7.937	0.5914	109	75-125	0			
Zinc	75.02	4.0	7.937	57.17	225	75-125	0			SO

MSD		Sample ID: 1607608-03AMSD				Units: mg/Kg		Analysis Date: 7/18/2016 07:30 PM		
Client ID:		Run ID: ICP2_160718A			SeqNo: 3929270		Prep Date: 7/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	11.77	0.80	8.026	0.6164	139	75-125	11.22	4.76	20	S
Copper	33.03	0.80	8.026	22.57	130	75-125	32.78	0.76	20	S
Nickel	37.38	0.40	8.026	25.45	149	75-125	34.64	7.6	20	S
Silver	9.513	0.40	8.026	-0.1227	120	75-125	9.163	3.75	20	

MSD		Sample ID: 1607608-03AMSD				Units: mg/Kg		Analysis Date: 7/19/2016 01:07 PM		
Client ID:		Run ID: ICP2_160719A			SeqNo: 3930329		Prep Date: 7/15/2016		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.78	2.0	8.026	13.34	118	75-125	24.46	7.08	20	
Chromium	40.23	2.0	8.026	25.51	183	75-125	41.15	2.25	20	S
Lead	20.92	2.0	8.026	12.73	102	75-125	21.53	2.89	20	
Selenium	8.908	4.0	8.026	0.5914	104	75-125	9.226	3.51	20	
Zinc	74.18	4.0	8.026	57.17	212	75-125	75.02	1.13	20	SO

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88541** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-88541-88541				Units: µg/Kg		Analysis Date: 7/13/2016 08:05 PM		
Client ID:		Run ID: SVMS8_160713A		SeqNo: 3923797		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1273	0	1667	0	76.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1549	0	1667	0	92.9	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1111	0	1667	0	66.7	37-107	0			

LCS		Sample ID: SLCSS1-88541-88541				Units: µg/Kg		Analysis Date: 7/13/2016 08:26 PM		
Client ID:		Run ID: SVMS8_160713A		SeqNo: 3923798		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	627.7	6.7	666.7	0	94.1	45-110	0			
Anthracene	696.3	6.7	666.7	0	104	55-105	0			
Benzo(a)anthracene	700.3	6.7	666.7	0	105	50-110	0			
Benzo(a)pyrene	717.7	6.7	666.7	0	108	50-110	0			
Benzo(b)fluoranthene	726.3	6.7	666.7	0	109	45-115	0			
Benzo(k)fluoranthene	723	6.7	666.7	0	108	45-115	0			
Chrysene	699.7	6.7	666.7	0	105	55-110	0			
Dibenzo(a,h)anthracene	725.7	6.7	666.7	0	109	40-125	0			
Fluoranthene	687.7	6.7	666.7	0	103	55-115	0			
Fluorene	652.3	6.7	666.7	0	97.8	50-110	0			
Indeno(1,2,3-cd)pyrene	721	6.7	666.7	0	108	40-120	0			
Naphthalene	607.3	6.7	666.7	0	91.1	40-105	0			
Pyrene	729.3	6.7	666.7	0	109	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1463	0	1667	0	87.8	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1586	0	1667	0	95.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1379	0	1667	0	82.7	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88541** Instrument ID **SVMS8** Method: **SW846 8270D**

MS		Sample ID: 1607608-04A MS				Units: µg/Kg		Analysis Date: 7/13/2016 10:39 PM		
Client ID:		Run ID: SVMS8_160713A		SeqNo: 3923799		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	520.9	6.6	661.5	0	78.7	45-110	0			
Anthracene	620.2	6.6	661.5	0	93.7	55-105	0			
Benzo(a)anthracene	610.2	6.6	661.5	0	92.2	50-110	0			
Benzo(a)pyrene	615.2	6.6	661.5	0	93	50-110	0			
Benzo(b)fluoranthene	605.6	6.6	661.5	0	91.5	45-115	0			
Benzo(k)fluoranthene	618.2	6.6	661.5	0	93.4	45-115	0			
Chrysene	614.2	6.6	661.5	0	92.8	55-110	0			
Dibenzo(a,h)anthracene	618.8	6.6	661.5	0	93.5	40-125	0			
Fluoranthene	602.3	6.6	661.5	0	91	55-115	0			
Fluorene	558	6.6	661.5	0	84.3	50-110	0			
Indeno(1,2,3-cd)pyrene	631.7	6.6	661.5	0	95.5	40-120	0			
Naphthalene	535.8	6.6	661.5	0	81	40-105	0			
Pyrene	616.2	6.6	661.5	0	93.1	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1392	0	1654	0	84.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1479	0	1654	0	89.5	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1203	0	1654	0	72.7	37-107	0			

MSD		Sample ID: 1607608-04A MSD				Units: µg/Kg		Analysis Date: 7/13/2016 11:00 PM		
Client ID:		Run ID: SVMS8_160713A		SeqNo: 3923800		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	520.4	6.6	663.9	0	78.4	45-110	520.9	0.0942	30	
Anthracene	632	6.6	663.9	0	95.2	55-105	620.2	1.89	30	
Benzo(a)anthracene	610.7	6.6	663.9	0	92	50-110	610.2	0.0798	30	
Benzo(a)pyrene	637.9	6.6	663.9	0	96.1	50-110	615.2	3.63	30	
Benzo(b)fluoranthene	622.7	6.6	663.9	0	93.8	45-115	605.6	2.78	30	
Benzo(k)fluoranthene	623.3	6.6	663.9	0	93.9	45-115	618.2	0.832	30	
Chrysene	620	6.6	663.9	0	93.4	55-110	614.2	0.942	30	
Dibenzo(a,h)anthracene	652.9	6.6	663.9	0	98.3	40-125	618.8	5.35	30	
Fluoranthene	592.1	6.6	663.9	0	89.2	55-115	602.3	1.7	30	
Fluorene	578.9	6.6	663.9	0	87.2	50-110	558	3.67	30	
Indeno(1,2,3-cd)pyrene	643.3	6.6	663.9	0	96.9	40-120	631.7	1.81	30	
Naphthalene	506.8	6.6	663.9	0	76.3	40-105	535.8	5.56	30	
Pyrene	634.3	6.6	663.9	0	95.5	45-125	616.2	2.89	30	
<i>Surr: 2-Fluorobiphenyl</i>	1371	0	1660	0	82.6	12-100	1392	1.5	40	
<i>Surr: 4-Terphenyl-d14</i>	1497	0	1660	0	90.2	25-137	1479	1.2	40	
<i>Surr: Nitrobenzene-d5</i>	1102	0	1660	0	66.4	37-107	1203	8.71	40	

The following samples were analyzed in this batch:

1607606-01A	1607606-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88549** Instrument ID **VMS10** Method: **SW8260B**

MBLK		Sample ID: MBLK-88549-88549			Units: µg/Kg-dry			Analysis Date: 7/14/2016 11:39 AM		
Client ID:		Run ID: VMS10_160714A			SeqNo: 3923765		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	985	0	1000	0	98.5	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1026	0	1000	0	103	70-130	0			
<i>Surr: Dibromofluoromethane</i>	902	0	1000	0	90.2	70-130	0			
<i>Surr: Toluene-d8</i>	982	0	1000	0	98.2	70-130	0			

LCS		Sample ID: LCS-88549-88549			Units: µg/Kg-dry			Analysis Date: 7/14/2016 10:29 AM		
Client ID:		Run ID: VMS10_160714A			SeqNo: 3923764		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1096	30	1000	0	110	75-125	0			
Ethylbenzene	1155	30	1000	0	116	75-125	0			
m,p-Xylene	2358	60	2000	0	118	80-125	0			
o-Xylene	1130	30	1000	0	113	75-125	0			
Toluene	1105	30	1000	0	110	70-125	0			
Xylenes, Total	3489	90	3000	0	116	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1002	0	1000	0	100	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1029	0	1000	0	103	70-130	0			
<i>Surr: Dibromofluoromethane</i>	997	0	1000	0	99.7	70-130	0			
<i>Surr: Toluene-d8</i>	1012	0	1000	0	101	70-130	0			

MS		Sample ID: 1607476-04A MS			Units: µg/Kg-dry			Analysis Date: 7/16/2016 02:17 AM		
Client ID:		Run ID: VMS5_160715A			SeqNo: 3926590		Prep Date: 7/13/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1569	44	1469	0	107	75-125	0			
Ethylbenzene	1582	44	1469	0	108	75-125	0			
m,p-Xylene	3218	88	2938	0	110	80-125	0			
o-Xylene	1552	44	1469	0	106	75-125	0			
Toluene	1559	44	1469	0	106	70-125	0			
Xylenes, Total	4770	130	4407	0	108	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1465	0	1469	0	99.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1470	0	1469	0	100	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1483	0	1469	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	1452	0	1469	0	98.8	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88549** Instrument ID **VMS10** Method: **SW8260B**

MSD		Sample ID: 1607476-04A MSD				Units: µg/Kg-dry		Analysis Date: 7/16/2016 02:43 AM		
Client ID:		Run ID: VMS5_160715A		SeqNo: 3926591		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1606	44	1469	0	109	75-125	1569	2.31	30	
Ethylbenzene	1638	44	1469	0	112	75-125	1582	3.47	30	
m,p-Xylene	3388	88	2938	0	115	80-125	3218	5.14	30	
o-Xylene	1618	44	1469	0	110	75-125	1552	4.13	30	
Toluene	1616	44	1469	0	110	70-125	1559	3.61	30	
Xylenes, Total	5005	130	4407	0	114	75-125	4770	4.81	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1449	0	1469	0	98.6	70-130	1465	1.16	30	
<i>Surr: 4-Bromofluorobenzene</i>	1470	0	1469	0	100	70-130	1470	0	30	
<i>Surr: Dibromofluoromethane</i>	1468	0	1469	0	99.9	70-130	1483	1.05	30	
<i>Surr: Toluene-d8</i>	1443	0	1469	0	98.2	70-130	1452	0.558	30	

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1607606
 Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88552** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-88552-88552		Units: mg/Kg		Analysis Date: 7/14/2016 03:30 PM					
Client ID:	Run ID: WETCHEM_160714J		SeqNo: 3924120		Prep Date: 7/13/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS	Sample ID: LCS-88552-88552		Units: mg/Kg		Analysis Date: 7/14/2016 03:30 PM					
Client ID:	Run ID: WETCHEM_160714J		SeqNo: 3924119		Prep Date: 7/13/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.563 0.97 4.854 0 94 80-120 0

MS	Sample ID: 1607608-03A MS		Units: mg/Kg		Analysis Date: 7/14/2016 03:30 PM					
Client ID:	Run ID: WETCHEM_160714J		SeqNo: 3924112		Prep Date: 7/13/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.83 1.0 5 0.34 49.8 75-125 0 S

MS	Sample ID: 1607608-03A MSI		Units: mg/Kg		Analysis Date: 7/14/2016 03:30 PM					
Client ID:	Run ID: WETCHEM_160714J		SeqNo: 3924114		Prep Date: 7/13/2016 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2820 100 2961 0.34 95.2 75-125 0

MSD	Sample ID: 1607608-03A MSD		Units: mg/Kg		Analysis Date: 7/14/2016 03:30 PM					
Client ID:	Run ID: WETCHEM_160714J		SeqNo: 3924113		Prep Date: 7/13/2016 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.137 0.98 4.902 0.34 57.1 75-125 2.83 10.3 20 S

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88557** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-88557-88557				Units: s.u.		Analysis Date: 7/13/2016 06:07 PM			
Client ID:		Run ID: WETCHEM_160713W			SeqNo: 3921938		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.98	0	4	0	99.5	90-110	0				

DUP		Sample ID: 1607606-02A DUP				Units: s.u.		Analysis Date: 7/13/2016 06:07 PM			
Client ID: Landfarm- North End		Run ID: WETCHEM_160713W			SeqNo: 3921941		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.18	0	0	0	0	0-0	8.36	2.18	20		

DUP		Sample ID: 1607607-01A DUP				Units: s.u.		Analysis Date: 7/13/2016 06:07 PM			
Client ID:		Run ID: WETCHEM_160713W			SeqNo: 3921943		Prep Date: 7/13/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.5	0	0	0	0	0-0	8.56	0.703	20	H	

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **88562** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 1607687-04B DUP		Units: mmhos/cm @25°		Analysis Date: 7/18/2016 01:30 PM					
Client ID:	Run ID: WETCHEM_160718D		SeqNo: 3928264		Prep Date: 7/18/2016 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.477	0.050	0	0	0		1.463	0.952	50	

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1607606
Project: Terra Energy - TR 24-28-597 - Landfarm

QC BATCH REPORT

Batch ID: **R191485** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R191485				Units: % of sample			Analysis Date: 7/13/2016 01:45 PM		
Client ID:		Run ID: MOIST_160713A		SeqNo: 3922593		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-R191485				Units: % of sample			Analysis Date: 7/13/2016 01:45 PM		
Client ID:		Run ID: MOIST_160713A		SeqNo: 3922592		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: 1607490-03B DUP				Units: % of sample			Analysis Date: 7/13/2016 01:45 PM		
Client ID:		Run ID: MOIST_160713A		SeqNo: 3922571		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	21.88	0.050	0	0	0		22.45	2.57	20		

DUP		Sample ID: 1607490-04B DUP				Units: % of sample			Analysis Date: 7/13/2016 01:45 PM		
Client ID:		Run ID: MOIST_160713A		SeqNo: 3922573		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	23.08	0.050	0	0	0		23.04	0.173	20		

The following samples were analyzed in this batch: 1607606-01A 1607606-02A

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #	1607666
PAGE	1 of 2

SAMPLER	Kris Rowe	DATE	7/11/2016	TURNAROUND	24 Rush	DISPOSAL	By Lab or Return to Client
PROJECT NAME	Terra Energy -TR 24-28-597 - Landfarm	SITE ID	Trail Ridge 24-28-597 Pad				
PROJECT No.		EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	BILL TO COMPANY	Terra Energy				
SEND REPORT TO	KRIS ROWE	INVOICE ATTN TO	Mike Gardner				
ADDRESS	2385 F 1/2	ADDRESS					
CITY / STATE / ZIP	GRAND JUNCTION CO 81505	CITY / STATE / ZIP					
PHONE	970-243-3271	PHONE					
FAX	970-243-3280	FAX					
E-MAIL	KROWE@HRLCOMP.COM	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	910-1 Metals	Semi Vols - PAH	SAR / EC / pH						
	Landfarm - South End	S	7/11/2016	9:30	2			x	x	x	x	x	x						
	Landfarm - North End	S	7/11/2016	9:15	2			x	x	x	x	x	x						

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments: 24 HR Rush - DRO/GRO/BTEX/PAH Standard TAT - Metals SAR/EC/pH 	QC PACKAGE (check below)
	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 8-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Kris Rowe	7/11/2016	
RECEIVED BY			7-11-16	1810
RELINQUISHED BY			7-11-16	1830
RECEIVED BY			7/13/16	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **13-Jul-16 10:30**

Work Order: **1607606**

Received by: **MEB**

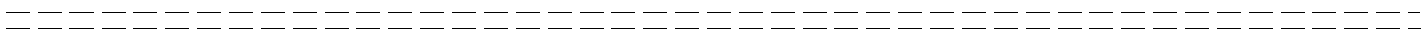
Checklist completed by Meghan Broadbent 13-Jul-16
eSignature Date

Reviewed by: Chad Whelton 13-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>2.0/2.0</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>7/13/2016 10:45:00 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: