

ALS Group USA, Corp

Date: 12-Jul-16

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - TR 24-28-597 - Pad Site Inves.
Sample ID: Landfarm
Collection Date: 7/7/2016 10:30 AM

Work Order: 1607432
Lab ID: 1607432-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 7/11/16	Analyst: IT
DRO (C10-C28)	510		10	mg/Kg-dry	1	7/12/2016 02:50 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>64.4</i>		<i>39-133</i>	<i>%REC</i>	1	7/12/2016 02:50 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 7/11/16	Analyst: IT
GRO (C6-C10)	61		3.8	mg/Kg-dry	1	7/11/2016 02:00 PM
<i>Surr: Toluene-d8</i>	<i>104</i>		<i>50-150</i>	<i>%REC</i>	1	7/11/2016 02:00 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 7/10/16	Analyst: LR
Mercury	0.042		0.018	mg/Kg-dry	1	7/11/2016 01:13 AM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 7/11/16	Analyst: JEC
Calcium	280		5.0	mg/L	10	7/11/2016 10:53 AM
Magnesium	62		2.0	mg/L	10	7/11/2016 10:53 AM
Sodium	890		2.0	mg/L	10	7/11/2016 10:53 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 7/11/16	Analyst: JEC
Sodium Adsorption Ratio	12		0.010	none	1	7/12/2016
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 7/11/16	Analyst: ML
Arsenic	12		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Barium	560		17	mg/Kg-dry	40	7/11/2016 04:46 PM
Cadmium	ND		0.68	mg/Kg-dry	4	7/11/2016 04:03 PM
Chromium	35		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Copper	23		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Lead	20		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Nickel	27		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Selenium	2.1		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Silver	ND		1.7	mg/Kg-dry	4	7/11/2016 04:03 PM
Zinc	72		3.4	mg/Kg-dry	4	7/11/2016 04:03 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3546 / 7/11/16	Analyst: RS
Acenaphthene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Acenaphthylene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Anthracene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Benzo(a)anthracene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Benzo(a)pyrene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Benzo(b)fluoranthene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Benzo(g,h,i)perylene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Benzo(k)fluoranthene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Chrysene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM

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

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Dibenzo(a,h)anthracene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Fluoranthene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Fluorene	63		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Indeno(1,2,3-cd)pyrene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Naphthalene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Pyrene	ND		16	µg/Kg-dry	1	7/12/2016 06:55 AM
Surr: 2-Fluorobiphenyl	63.1		12-100	%REC	1	7/12/2016 06:55 AM
Surr: 4-Terphenyl-d14	64.8		25-137	%REC	1	7/12/2016 06:55 AM
Surr: Nitrobenzene-d5	65.4		37-107	%REC	1	7/12/2016 06:55 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 7/8/16	Analyst: AK
Benzene	ND		0.046	mg/Kg-dry	1	7/10/2016 02:09 PM
Ethylbenzene	ND		0.046	mg/Kg-dry	1	7/10/2016 02:09 PM
m,p-Xylene	ND		0.092	mg/Kg-dry	1	7/10/2016 02:09 PM
o-Xylene	ND		0.046	mg/Kg-dry	1	7/10/2016 02:09 PM
Toluene	ND		0.046	mg/Kg-dry	1	7/10/2016 02:09 PM
Xylenes, Total	ND		0.14	mg/Kg-dry	1	7/10/2016 02:09 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	7/10/2016 02:09 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	7/10/2016 02:09 PM
Surr: Dibromofluoromethane	91.6		70-130	%REC	1	7/10/2016 02:09 PM
Surr: Toluene-d8	95.4		70-130	%REC	1	7/10/2016 02:09 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 7/11/16	Analyst: JB
Electrical Conductivity @ Saturation	7.9		0.25	mmhos/cm @2	50	7/11/2016 03:40 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	35		0.64	mg/Kg-dry	1	7/12/2016 03:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 7/11/16	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/12/2016 01:00 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	21		0.050	% of sample	1	7/10/2016 05:57 PM
PH			SW9045D		Prep: EXTRACT / 7/11/16	Analyst: KF
pH	7.8			s.u.	1	7/11/2016 04:00 PM

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