



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

20 December 2016

Kerry Tahmahkera
Maralex
PO Box 338
Ignacio, CO 81137
RE: TPH

Enclosed are the results of analyses for samples received by the laboratory on 12/09/16 16:35.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is fluid and cursive, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



Maralex
PO Box 338
Ignacio CO, 81137

Project: TPH
Project Name / Number: DF 2nd Round Land Farm Testing
Project Manager: Kerry Tahmahkera

Reported:
12/20/16 19:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Land Farm Cell #4	1612117-01	Solid	12/09/16 15:50	12/09/16 16:35
Land Farm Cell #5	1612117-02	Solid	12/09/16 15:54	12/09/16 16:35
Land Farm Cell #6	1612117-03	Solid	12/09/16 15:43	12/09/16 16:35

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Land Farm Cell #4

1612117-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- **Cardinal Laboratories**

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	12/16/16	8015B		MS
DRO >C10-C28	82.8	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
EXT DRO >C28-C35	106	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
Surrogate: 1-Chlorooctane			86.6 %	35-147		12/16/16	8015B		MS
Surrogate: 1-Chlorooctadecane			84.8 %	28-171		12/16/16	8015B		MS

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Land Farm Cell #5

1612117-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- **Cardinal Laboratories**

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	12/16/16	8015B		MS
DRO >C10-C28	156	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
EXT DRO >C28-C35	201	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
Surrogate: 1-Chlorooctane			85.2 %	35-147		12/16/16	8015B		MS
Surrogate: 1-Chlorooctadecane			89.9 %	28-171		12/16/16	8015B		MS

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Reported:
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Land Farm Cell #6

1612117-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- **Cardinal Laboratories**

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	3.53	mg/kg	1	12/16/16	8015B		MS
DRO >C10-C28	54.6	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
EXT DRO >C28-C35	83.7	10.0	2.04	mg/kg	1	12/16/16	8015B		MS
Surrogate: 1-Chlorooctane			84.4 %	35-147		12/16/16	8015B		MS
Surrogate: 1-Chlorooctadecane			84.1 %	28-171		12/16/16	8015B		MS

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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6121603 - General Prep - Organics**Blank (6121603-BLK1)**

Prepared & Analyzed: 12/16/16

Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0		97.3	28-171			
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.7	35-147			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (6121603-BS1)

Prepared & Analyzed: 12/16/16

Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.8	28-171			
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	35-147			
DRO >C10-C28	197	10.0	mg/kg	200		98.5	78.3-122			
GRO C6-C10	192	10.0	mg/kg	200		95.8	76.7-115			
Total TPH C6-C28	388	10.0	mg/kg	400		97.1	79.8-117			

LCS Dup (6121603-BSD1)

Prepared & Analyzed: 12/16/16

Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	28-171			
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.9	35-147			
DRO >C10-C28	194	10.0	mg/kg	200		97.2	78.3-122	1.29	13.2	
GRO C6-C10	187	10.0	mg/kg	200		93.6	76.7-115	2.26	9.42	
Total TPH C6-C28	382	10.0	mg/kg	400		95.4	79.8-117	1.77	10.7	

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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
RPD Relative Percent Difference
LCS Laboratory Control Sample (Blank Spike)
RL Report Limit
MDL Method Detection Limit

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service@greenanalytical.com or dzufelt@greenanalytical.com
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