NM1 - 34

MONITORING REPORT

YEAR(S):

2015-2016___

DD LANDFARM BOX 36 MONUMENT, NM 88265

NMOCD Environmental ATTN: Brad Jones 1220 South St. Francis Drive Santa Fe, NM 87505

RE: DD Landfarm

Mr. Jones:

Please find the attached request and/or information concerning DD Landfarm.

We appreciate your time and patience as we get everything together as you requested to get into compliance.

We appreciate your continued cooperation.

Thanks.

Jimmie B. Cooper Owner - Operator

DD Landfarm 1-254-493-9082 NMOCD Environmental 1220 South ST. Francis Drive Santa FE, NM 87505

RE: DD Landfarm Sampling

Dear Sir:

Find enclosed the analytical for DD Landfarm, both treatment and vadose samples.

The test was compared to the background and PQL, and all were in compliance.

Should you have any questions, please call.

Thanks,

Eddie Seay Consulting, Agent

601 W. Illinois

Hobbs, NM 88242 575-392-2236

seay04@leaco.net

cc: DD Landfarm



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 12, 2016

Jim Cooper
DD Landfarm
Box 36
Monument, NM 88265

TEL: (575) 390-2454

FAX

RE: DD Landfarm OrderNo.: 1609G92

Dear Jim Cooper:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/29/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

DD Landfarm

Project:

Client Sample ID: Cell 1-T

Collection Date: 9/27/2016 6:30:00 AM

Matrix: SOIL Lab ID: 1609G92-001 Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RA	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/4/2016 3:56:16 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/4/2016 3:56:16 PM		
Surr: DNOP	81.9	70-130	%Rec	1	10/4/2016 3:56:16 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/3/2016 12:15:18 PM		
Surr. BFB	87.7	68.3-144	%Rec	1	10/3/2016 12:15:18 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	10/3/2016 12:15:18 PM		
Benzene	ND	0.025	mg/Kg	1	10/3/2016 12:15:18 PM		
Toluene	ND	0.050	mg/Kg	1	10/3/2016 12:15:18 PM		
Ethylbenzene	ND	0.050	mg/Kg	1	10/3/2016 12:15:18 PM		
Xylenes, Total	ND	0.10	mg/Kg	1	10/3/2016 12:15:18 PM		
Surr. 4-Bromofluorobenzene	100	80-120	%Rec	1	10/3/2016 12:15:18 PM		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	13	1.5	mg/Kg	1	10/4/2016 1:32:43 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 21 J
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/12/2016

CLIENT: DD Landfarm Client Sample ID: Cell 2-T

 Project:
 DD Landfarm
 Collection Date: 9/27/2016 6:50:00 AM

 Lab ID:
 1609G92-002
 Matrix: SOIL
 Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/4/2016 6:13:21 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/4/2016 6:13:21 PM
Surr. DNOP	79.8	70-130	%Rec	1	10/4/2016 6:13:21 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/3/2016 4:02:07 PM
Surr. BFB	81.4	68.3-144	%Rec	1	10/3/2016 4:02:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	10/3/2016 4:02:07 PM
Benzene	ND	0.025	mg/Kg	1	10/3/2016 4:02:07 PM
Toluene	ND	0.050	mg/Kg	1	10/3/2016 4:02:07 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/3/2016 4:02:07 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/3/2016 4:02:07 PM
Surr. 4-Bromofluorobenzene	94.1	80-120	%Rec	1	10/3/2016 4:02:07 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	25	1.5	mg/Kg	1	10/4/2016 1:57:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm Client Sample ID: Cell 3-T

DD Landfarm Collection Date: 9/27/2016 7:15:00 AM Project: Lab ID: 1609G92-003 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/4/2016 6:58:56 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/4/2016 6:58:56 PM
Surr: DNOP	83.6	70-130	%Rec	1	10/4/2016 6:58:56 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/3/2016 5:12:32 PM
Surr: BFB	84.3	68.3-144	%Rec	1	10/3/2016 5:12:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	10/3/2016 5:12:32 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 5:12:32 PM
Toluene	ND	0.048	mg/Kg	1	10/3/2016 5:12:32 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/3/2016 5:12:32 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/3/2016 5:12:32 PM
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	10/3/2016 5:12:32 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	66	30	mg/Kg	20	10/4/2016 2:34:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 21 J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell 1-1V CLIENT: DD Landfarm

DD Landfarm Collection Date: 9/27/2016 7:40:00 AM Project:

1609G92-004 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM Lab ID:

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	10/3/2016 5:35:58 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 5:35:58 PM
Toluene	ND	0.048	mg/Kg	1	10/3/2016 5:35:58 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/3/2016 5:35:58 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/3/2016 5:35:58 PM
Surr. 4-Bromofluorobenzene	93.2	80-120	%Rec	1	10/3/2016 5:35:58 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	10/4/2016 3:11:59 PM
EPA METHOD 418.1: TPH					Analyst: MAE
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 21 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/12/2016

CLIENT: DD Landfarm Client Sample ID: Cell 1-2V

 Project:
 DD Landfarm
 Collection Date: 9/27/2016 8:00:00 AM

 Lab ID:
 1609G92-005
 Matrix: SOIL
 Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	10/3/2016 5:59:22 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 5:59:22 PM
Toluene	ND	0.047	mg/Kg	1	10/3/2016 5:59:22 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/3/2016 5:59:22 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/3/2016 5:59:22 PM
Surr: 4-Bromofluorobenzene	94.7	80-120	%Rec	1	10/3/2016 5:59:22 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	10/4/2016 3:36:49 PM
EPA METHOD 418.1: TPH					Analyst: MAE
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 1-3V

Collection Date: 9/27/2016 8:25:00 AM

DD Landfarm Project: Lab ID: 1609G92-006 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	10/3/2016 6:22:44 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 6:22:44 PM
Toluene	ND	0.048	mg/Kg	1	10/3/2016 6:22:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/3/2016 6:22:44 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/3/2016 6:22:44 PM
Surr: 4-Bromofluorobenzene	94.1	80-120	%Rec	1	10/3/2016 6:22:44 PM
EPA METHOD 300.0: ANIONS					Analyst: MR
Chloride	ND	1.5	mg/Kg	1	10/4/2016 4:01:37 PM
EPA METHOD 418.1: TPH					Analyst: MAE
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 1-4V

Project: DD Landfarm

Collection Date: 9/27/2016 9:05:00 AM

Lab ID: 1609G92-007

Matrix: SOIL

Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	10/3/2016 6:46:07 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 6:46:07 PM
Toluene	ND	0.048	mg/Kg	1	10/3/2016 6:46:07 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/3/2016 6:46:07 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/3/2016 6:46:07 PM
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	10/3/2016 6:46:07 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	10/4/2016 4:26:26 PM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609G92

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Project: DD Landfarm

1609G92-008

Lab ID:

Client Sample ID: Cell 2-1V

Collection Date: 9/27/2016 9:30:00 AM Received Date: 9/29/2016 9:40:00 AM

Result PQL Qual Units DF Analyses Date Analyzed **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 10/3/2016 7:09:27 PM Methyl tert-butyl ether (MTBE) 0.096 mg/Kg 1 Benzene ND 0.024 mg/Kg 1 10/3/2016 7:09:27 PM Toluene ND 0.048 mg/Kg 1 10/3/2016 7:09:27 PM Ethylbenzene ND 0.048 mg/Kg 1 10/3/2016 7:09:27 PM Xylenes, Total ND 0.096 mg/Kg 1 10/3/2016 7:09:27 PM Surr: 4-Bromofluorobenzene 94.1 80-120 %Rec 1 10/3/2016 7:09:27 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 10/4/2016 4:51:15 PM 1.5 mg/Kg 1 **EPA METHOD 418.1: TPH** Analyst: MAB Petroleum Hydrocarbons, TR ND 19 mg/Kg 1 10/5/2016

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 21 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609G92

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Project: DD Landfarm

Lab ID:

1609G92-009

Matrix: SOIL

Client Sample ID: Cell 2-2V

Collection Date: 9/27/2016 9:55:00 AM

Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	10/3/2016 9:07:03 PM
Benzene	ND	0.023	mg/Kg	1	10/3/2016 9:07:03 PM
Toluene	ND	0.046	mg/Kg	1	10/3/2016 9:07:03 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/3/2016 9:07:03 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/3/2016 9:07:03 PM
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	10/3/2016 9:07:03 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	10/4/2016 5:40:54 PM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	10/5/2016
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609G92

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm
Project: DD Landfarm

Client Sample ID: Cell 2-3V

Collection Date: 9/27/2016 10:35:00 AM

Lab ID: 1609G92-010 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Result	PQL Qu	al Units	DF	Date Analyzed
				Analyst: NSB
ND	0.097	mg/Kg	1	10/3/2016 9:30:35 PM
ND	0.024	mg/Kg	1	10/3/2016 9:30:35 PM
ND	0.048	mg/Kg	1	10/3/2016 9:30:35 PM
ND	0.048	mg/Kg	1	10/3/2016 9:30:35 PM
ND	0.097	mg/Kg	1	10/3/2016 9:30:35 PM
94.9	80-120	%Rec	1	10/3/2016 9:30:35 PM
				Analyst: MRA
ND	1.5	mg/Kg	1	10/4/2016 6:05:42 PM
				Analyst: MAB
ND	18	mg/Kg	1	10/5/2016
	ND ND ND ND 94.9	ND 0.097 ND 0.024 ND 0.048 ND 0.048 ND 0.097 94.9 80-120 ND 1.5	ND 0.097 mg/Kg ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.097 mg/Kg 94.9 80-120 %Rec ND 1.5 mg/Kg	ND 0.097 mg/Kg 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.097 mg/Kg 1 94.9 80-120 %Rec 1 ND 1.5 mg/Kg 1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Project:

DD Landfarm

Client Sample ID: Cell 2-4V

Collection Date: 9/27/2016 11:10:00 AM

Lab ID: 1609G92-011 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	10/3/2016 9:54:10 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 9:54:10 PM
Toluene	ND	0.049	mg/Kg	1	10/3/2016 9:54:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/3/2016 9:54:10 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/3/2016 9:54:10 PM
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	10/3/2016 9:54:10 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	1.5	mg/Kg	1	10/5/2016 1:37:00 PM
EPA METHOD 418.1: TPH					Analyst: MAE
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 3-1V

Project: DD Landfarm

Collection Date: 9/27/2016 11:45:00 AM

Lab ID: 1609G92-012

Matrix: SOIL

Received Date: 9/29/2016 9:40:00 AM

lyzed	Date Analyz	DF	Units	PQL Qu	Result	Analyses	
nalyst: NSB	Ana					EPA METHOD 8021B: VOLATILES	
6 10:17:41 PM	10/3/2016 10	1	mg/Kg	0.093	ND	Methyl tert-butyl ether (MTBE)	
6 10:17:41 P M	10/3/2016 10	1	mg/Kg	0.023	ND	Benzene	
6 10:17:41 PM	10/3/2016 10	1	mg/Kg	0.047	ND	Toluene	
6 10:17:41 PM	10/3/2016 10	1	mg/Kg	0.047	ND	Ethylbenzene	
6 10:17:41 PM	10/3/2016 10	1	mg/Kg	0.093	ND	Xylenes, Total	
6 10:17:41 PM	10/3/2016 10	1	%Rec	80-120	95.7	Surr. 4-Bromofluorobenzene	
nalyst: LGT	Ana					EPA METHOD 300.0: ANIONS	
6 2:26:39 PM	10/5/2016 2:	1	mg/Kg	1.5	ND	Chloride	
nalyst: MAB	Ana					EPA METHOD 418.1: TPH	
6	10/5/2016	1	mg/Kg	19	ND	Petroleum Hydrocarbons, TR	
		1	mg/Kg	19	ND		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 21
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 3-2V

Project: DD Landfarm Collection Date: 9/27/2016 12:30:00 PM

1609G92-013 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM Lab ID:

Result	PQL Qu	al Units	DF	Date Analyzed
				Analyst: NSB
ND	0.098	mg/Kg	1	10/3/2016 10:41:15 PM
ND	0.025	mg/Kg	1	10/3/2016 10:41:15 PM
ND	0.049	mg/Kg	1	10/3/2016 10:41:15 PM
ND	0.049	mg/Kg	1	10/3/2016 10:41:15 PM
ND	0.098	mg/Kg	1	10/3/2016 10:41:15 PM
96.5	80-120	%Rec	1	10/3/2016 10:41:15 PM
				Analyst: LGT
ND	1.5	mg/Kg	1	10/5/2016 2:51:29 PM
				Analyst: MAB
ND	19	mg/Kg	1	10/5/2016
	ND ND ND ND ND 96.5	ND 0.098 ND 0.025 ND 0.049 ND 0.049 ND 0.098 96.5 80-120	ND 0.098 mg/Kg ND 0.025 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.098 mg/Kg 96.5 80-120 %Rec	ND 0.098 mg/Kg 1 ND 0.025 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.098 mg/Kg 1 96.5 80-120 %Rec 1 ND 1.5 mg/Kg 1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 13 of 21 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm Client Sample ID: Cell 3-3V

DD Landfarm Collection Date: 9/27/2016 1:05:00 PM Project: Lab ID: 1609G92-014 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Analyses	Result PQL Qual Units		DF	Date Analyzed	
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	10/3/2016 11:04:51 PM
Benzene	ND	0.024	mg/Kg	1	10/3/2016 11:04:51 PM
Toluene	ND	0.048	mg/Kg	1	10/3/2016 11:04:51 PM
Ethylbenzene	. ND	0.048	mg/Kg	1	10/3/2016 11:04:51 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/3/2016 11:04:51 PM
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	10/3/2016 11:04:51 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	1.5	mg/Kg	1	10/5/2016 3:41:07 PM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 14 of 21 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 10/12/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Project:

DD Landfarm

Client Sample ID: Cell 3-4V

Collection Date: 9/27/2016 1:35:00 PM

Lab ID: 1609G92-015 Matrix: SOIL Received Date: 9/29/2016 9:40:00 AM

Analyses	Result	PQL Qual Units		DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	10/3/2016 11:28:19 PM
Benzene	ND	0.025	mg/Kg	1	10/3/2016 11:28:19 PM
Toluene	ND	0.049	mg/Kg	1	10/3/2016 11:28:19 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/3/2016 11:28:19 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/3/2016 11:28:19 PM
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	10/3/2016 11:28:19 PM
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	ND	1.5	mg/Kg	1	10/5/2016 4:05:56 PM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	10/5/2016

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 21 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1609G92**

12-0a-16

Client: DD Landfarm
Project: DD Landfarm

Sample iD MB-27890 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 27890 RunNo: 37687

Prep Date: 10/4/2016 Analysis Date: 10/4/2016 SeqNo: 1173758 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-27890 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 27890 RunNo: 37687

Prep Date: 10/4/2016 Analysis Date: 10/4/2016 SeqNo: 1173759 Units: mg/Kg

15.00

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

95.6

gn

110

Sample ID MB-27916 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 27916 RunNo: 37727

1.5

Prep Date: 10/5/2016 Analysis Date: 10/5/2016 SeqNo: 1175291 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-27916 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 27916 RunNo: 37727

Prep Date: 10/5/2016 Analysis Date: 10/5/2016 SeqNo: 1175292 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.2 90 110

Sample ID 1609G92-011AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: Cell 2-4V Batch ID: 27916 RunNo: 37727

Prep Date: 10/5/2016 Analysis Date: 10/5/2016 SeqNo: 1175306 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride 15 1.5 15.00 0.8366 92.2 70.8 119

Sample ID 1609G92-011AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: Cell 2-4V Batch ID: 27916 RunNo: 37727

Prep Date: 10/5/2016 Analysis Date: 10/5/2016 SeqNo: 1175307 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 15 1.5 15.00 0.8366 93.3 70.8 119 1.02

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Analyte detected below quantitation in

Page 16 of 21

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609G92

12-0ct-16

Client:

DD Landfarm

Project:

Analyte

DD Landfarm

Sample ID MB-27877

SampType: MBLK

TestCode: EPA Method 418.1; TPH

Client ID: PBS

Batch ID: 27877

RunNo: 37698

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Prep Date: 10/4/2016

Analysis Date: 10/5/2016

SeqNo: 1174135

HighLimit

RPDLimit

Qual

Petroleum Hydrocarbons, TR

ND

Result

20 SampType: LCS

20

PQL

TestCode: EPA Method 418.1: TPH

TestCode: EPA Method 418.1: TPH

LowLimit

80.7

Sample ID LCS-27877 Client ID: LCSS Prep Date: 10/4/2016

Batch ID: 27877 Analysis Date: 10/5/2016

110

Result

110

RunNo: 37698

SeqNo: 1174138

Units: mg/Kg

Analyte Petroleum Hydrocarbons, TR Result PQL

SPK value SPK Ref Val %REC LowLimit

100.0

100.0

111 80.7 HighLimit 121 %RPD **RPDLimit** Qual

Qual

Sample ID LCSD-27877

Client ID: LCSS02

Petroleum Hydrocarbons, TR

SampType: LCSD

Batch ID: 27877

POL

107

RunNo: 37698

121

Prep Date: 10/4/2016 Analyte

Analysis Date: 10/5/2016

SeqNo: 1174140 SPK value SPK Ref Val %REC

0

Units: mg/Kg HighLimit

%RPD

RPDLimit

%RPD 3.75 20

Qualiflers:

D

Value exceeds Maximum Contaminant Level.

Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

Ε Value above quantitation range

J Analyte detected below quantitation limits

Page 17 of 21

Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609G92

12-0ct-16

Client:

DD Landfarm

Project:

DD Landfarm

Sample ID LCS-27830	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 27	830	R	RunNo: 3	7650							
Prep Date: 10/3/2016	Analysis D	ate: 10	/4/2016	S	eqNo: 1	172881	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	43	10	50.00	0	86.9	62.6	124						
Surr: DNOP	4.0		5.000		81.0	70	130						

Sample ID MB-27830	SampT	SampType: MBLK TestCode: EPA Method 8						esel Rang	e Organics			
Client ID: PBS	Batch	ID: 27	B30	R	RunNo: 3	7650						
Prep Date: 10/3/2016	Analysis D	ate: 10	0/4/2016	S	172882	32 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	8.4		10.00		84.3	70	130					

Sample ID 1609G92-001AMS	SampT	ype: MS	5	Tes	PA Method	hod 8015M/D: Diesel Range Organics									
Client ID: Cell 1-T	Batch	ID: 27	830	F	7650										
Prep Date: 10/3/2016	Analysis D	ate: 10	0/4/2016	S	SeqNo: 1	173746	746 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	36	9.7	48.73	7.833	58.2	33.9	141								
Surr: DNOP	4.0		4.873		81.2	70	130								

Sample ID 1609G92-001AN	ASD SampT	ype: MS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: Cell 1-T	Batch	1D: 27	830	F	RunNo: 3	7650							
Prep Date: 10/3/2016	Analysis D	ate: 10	0/4/2016	S	SeqNo: 1	173747	Units: mg/M						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	39	9.6	48.08	7.833	65.8	33.9	141	8.65	20				
SUIT: DNOP	39		4 808		81.8	70	130	0	0				

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits

Page 18 of 21

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609G92

12-0a-16

Client: DD Landfarm
Project: DD Landfarm

Sample ID MB-27807 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 27807 RunNo: 37629

Prep Date: 9/30/2016 Analysis Date: 10/3/2016 SeqNo: 1171959 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 830 1000 82.6 68.3 144

Sample ID LCS-27807 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 27807 RunNo: 37629

Prep Date: 9/30/2016 Analysis Date: 10/3/2016 SeqNo: 1171960 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte PQL Gasoline Range Organics (GRO) 24 5.0 25.00 97.8 74.6 123

Surr. BFB 910 1000 90.9 68.3 144

Sample ID 1609G92-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Cell 2-T Batch ID: 27807 RunNo: 37629

Prep Date: 9/30/2016 Analysis Date: 10/3/2016 SeqNo: 1171967 Units: mg/Kg

SPK value SPK Ref Val %REC **HighLimit** %RPD **RPDLimit** Analyte **PQL** LowLimit Qual 4.6 23.17 0 101 59.3 143 23

Gasoline Range Organics (GRO) 23 4.6 23.17 0 101 59.3 143 Surr: BFB 870 926.8 93.4 68.3 144

Sample ID 1609G92-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Cell 2-T Batch ID: 27807 RunNo: 37629

Prep Date: 9/30/2016 Analysis Date: 10/3/2016 SeqNo: 1171968 Units: rng/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 26 23.15 59.3 9.53 Gasoline Range Organics (GRO) 4.6 111 143 20

Sum: BFB 870 925.9 94.3 68.3 144 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 19 of 21

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609G92

12-0ct-16

Client: DD Landfarm
Project: DD Landfarm

Sample ID MB-27807	Samp	уре: МЕ	BLK	Tes	tCode: E	tiles				
Client ID: PBS	Batc	n ID: 27	807	F	RunNo: 3	7629				
Prep Date: 9/30/2016	Analysis D	Date: 10)/3/2016	s	SeqNo: 1	171975	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID LCS-27807	Samp	Гуре: LC	s	Tes	tCode: El	tiles				
Client ID: LCSS	Batci	h ID: 27	807	F	RunNo: 3	7629				
Prep Date: 9/30/2016	Analysis [Date: 10	0/3/2016	8	SeqNo: 1	171976	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.91	0.10	1.000	0	91.2	61	143			
Benzene	0.96	0.025	1.000	0	96.0	75.3	123			
Toluene	0.97	0.050	1.000	0	97.2	80	124			
Ethy lbe nzene	0.98	0.050	1.000	0	98.3	82.8	121			
Xylenes, Total	2.9	2.9 0.10 3.000			0 97.2 83.9					
Surr: 4-Bromofluorobenzene	1.0	1.0 1.000			102	80	120			

Sample ID 1609G92-001AMS	SampT	SampType: MS TestCode: EPA Method						tiles		
Client ID: Cell 1-T	Batch	1D: 27	907	F	RunNo: 3	7629				
Prep Date: 9/30/2016	Analysis D	ate: 10	0/3/2016	SeqNo: 1171978 U			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.87	0.10	0.9980	0	86.7	69.2	128			
Benzene	0.91	0.025	0.9980	0	91.2	71.5	122			
Toluene	0.96	0.050	0.9980	0	96.1	71.2	123			
Ethylbenzene	1.0	0.050	0.9980	0.01353	98.6	75.2	130			
Xylenes, Total	3.0	0.10	2.994	0.01755	98.5	72.4	131			
Surr: 4-Bromofluorobenzene	0.99		0.9980		99.4	80	120			

Sample ID 1609G92-001AMS	SD SampT	ype: MS	SD	TestCode: EPA Method 8021B; Volatiles								
Client ID: Cell 1-T	Batch	1D: 27	807	F	RunNo: 37629							
Prep Date: 9/30/2016	Analysis D	ate: 10	/3/2016 SeqNo: 1171979 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (MTBE)	0.89	0.093	0.9259	0	95.7	69.2	128	2.31	20			
Benzene	0.91	0.023	0.9259	0	98.2	71.5	122	0.0635	20			
Toluene	0.93	0.046	0.9259	0	100	71.2	123	3.08	20			
Ethylbenzene	0.95	0.046	0.9259	0.01353	102	75.2	130	4.41	20			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 20 of 21

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609G92

Qual

RPDLimit

12-0ct-16

Client:

DD Landfarm

Project:

DD Landfarm

Sample ID 1609G92-001AMSD SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: Cell 1-T

Batch ID: 27807

RunNo: 37629

Prep Date: 9/30/2016

Analysis Date: 10/3/2016

SeqNo: 1171979 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit **HighLimit** %RPD

Xylenes, Total 2.9 0.093 2.778 0.01755 102 3.97 72.4 131 20 0.93 0.9259 Surr: 4-Bromofluorobenzene 101 80 120 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В
- Value above quantitation range E
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

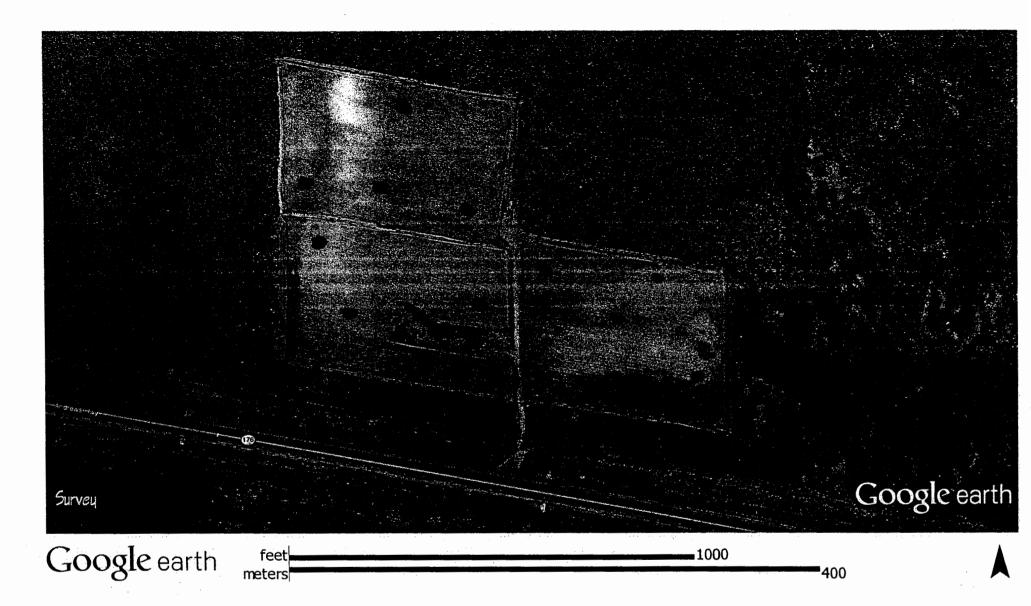
EL: 303-343-3973 PAA: 303-343-4107 Website: www.hallenvironmental.com

Albuquerque, NM 87109 Sample Log-In Check List

Client Name: DD LANDFARM Work Order Number	r. 1609G92		RoptNo: 1
Received by/date: 09 29	Ιφ		······································
Logged By: Ashley Gallegos 9/29/2016 9:40:00 All	A	A	
Completed By: Ashley Gallegos 9/29/2016 3:02:23 PM	A	A	
Reviewed By: 50 9/29/16		- · d	
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗔	Not Present
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗆
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in proper container(s)?	Yes 🖟	No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes 🕏	No 🗀	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆
10.VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials 🗃
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗃	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?
14. Is it clear what analyses were requested?	Yes 🛃	No 🗆	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🗃
Person Notified: Date By Whom: Via:	¦ □ eMail □	Phone Fax	In Person
Regarding:		TROID	WANTAGE TO STATE OF THE STATE O
Client Instructions:			
17. Additional remarks:			
18. <u>Cooler Information</u>			
Cooler No Temp *C Condition Seal Intact Seal No	Seal Date	Signed By	
1 3.3 Good Yes			

		ot-Cu	istody Record	Turn-Around Time:						Н	ALL	E	NV	IR	OI	NM	EN'	TÁL	
:lient:	DD	La	n) Fara s	Standard			-			A	IAV	.Y	SIS	L	AB	OF		ORY	
lailing	Address	Box	310	ם מת	antform			490	01 Ha		ww.ha s NE						09		
J) Day	See April	101	97. 88260	Project #:	mual S	umpling"	Tel. 505-345-3975 Fax 505-34 Analysis Reque												
			or Olevariat	Project Mana	ger:		<u> </u>	nły)	(Q)				24)						
	Package:	•	□ Level 4 (Full Validation)	J. 6	agan.		TMB's (8021)	+ TPH (Gas only)	RO / MI		SIMS)		,PO4,S	2 PCB's					
J NEL		□ Othe	er	Sampler: E	TO Yes	D NG ×	+	+ TPH	RO/D	18.1			O ₃ ,NO,	s / 8082		ह			N o
1 EDI	(Type)			Sample Tem	perature:			TBE	9)	ğ	0 0	etal	N,	gi	₹	Ĭ	76		<u></u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Serni-VOA)	Chloride		Air Bubbles (Y or N)
27	4.30	Soi	Cell 1-T	1-403	/ U o	1609G92.00	11		J							,	J		
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Date	Time	Matrix	Sample Reque	est ID	Container Type and #	Preservative Type	HEAL NO	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pestik	8260B (VOA)	8270 (Semi-VOA)	Chbi			Air Bubbles (Y	
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7	if necessary,	semples de	omitted to Hall Environmental	may be subco	ntracted to other a	coredited laboratori	es. This serves as notice of this	s pose	blity.	Any s	ub-cor	tracte	d deta	will be	e dear	ty nota	ted or	n the a	nalytica	il report.			



Approx. Sampling Locations.

DD Londform September 2016

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



June 4, 2015

Mr. Jimmie B. Cooper DD Landfarm P.O. Box 36 Monument, New Mexico 88265

RE: Extension Request To Respond To OCD's 2014 Bi-Annual Sampling and Five Year

Monitoring Report Review

DD Landfarm Permit NM1-034

Location: W/2 W/2 of Section 31, Township 21 South, Range 39 East, NMPM,

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of DD Landfarm's (DD) request, received by OCD on June 2, 2015, for an extension to respond to OCD's request for additional information based upon OCD's May 18, 2015 written review of DD's May 2014 Annual Vadose Zone and Five Year Vadose Zone Monitoring Report; November 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; April 2015 Bi-Annual Treatment and Vadose Zone Monitoring Report; and the July 2014 Release Response Report for Cell 3. OCD hereby grants a 30-day extension to the original deadlines, as provided in OCD's May 18, 2015 review.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc: (

OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

Mr. Cooper DD Landfarms Permit NM-1-034 May 18, 2015 Page 2 of 3

Pursuant to 19.15.36.15.E NMAC, the operator is required to compare the vadose results "to the higher of the PQL [Practical Quantitative Limit] or the background soil concentrations to determine whether a release has occurred." OCD's review of the administrative files for the facility resulted in the discovery of the initial facility background data set from November 2000. The November 27, 2000 background data set provided results for the following 19 analytes: bromide, chloride, fluoride, nitrates, nitrites, ortho-phosphate, sulfate, arsenic, barium, cadmium, chromium, lead, selenium, silver, diesel range organics (DRO), benzene, toluene, ethyl benzene, and total xylene, which was provided in the May 2014 Annual Vadose Zone and Five Year Vadose Zone Monitoring Report. The May 2014 report also included a sheet identified as "New Mexico Limits" and a regulatory reference of "Rule 53 G.(e)." The regulatory reference indicates that this was proposed landfarm closure language for Part 36 during the rulemaking hearing. This language was not adopted by the Oil Conservation Commission and is not effective or applicable for the comparison to vadose zone results. OCD has been unable to locate any additional background data that seemed to be used for the comparison for the 69 analtyes from the five year vadose zone monitoring event and the 62 analtyes from release response sampling event. Please provide OCD a copy of the laboratory data set used for the background/PQL data set, in order to establish an updated and revised facility background with OCD.

OCD compared the 2000 background data set to the May 2014 annual vadose zone and five year vadose zone monitoring results and determined common exceedances to all cells for arsenic, barium, chromium, lead, and a detection of TPH at 112 mg/kg in the annual vadose zone monitoring results and common exceedances to all cells for arsenic, barium, cadmium, chromium, lead, silver, and detections of methylene chloride and toluene (Cell 1 only) in the five year vadose zone monitoring results. Only the detection of TPH at 112 mg/kg in Cell 3 was recognized and pursued for compliance with 19.15.36.15.E.(5) NMAC. None of the exceedances in Cells 1 and 2 were recognized in the assessment or recommended for the release response sampling of 19.15.36.15.E.(5) NMAC. If a different facility background data set was utilized for the assessment, please provide OCD a copy of the laboratory data set in order to establish an updated and revised facility background with OCD. If not, please demonstrate compliance to 19.15.36.15.E.(5) NMAC.

OCD compared the 2000 background data set to the July 2014 release response results for Cell 3 and determined common exceedances for arsenic, barium, cadmium, chromium, and lead. None of these exceedances were recognized in the assessment nor was a response action plan of 19.15.36.15.E.(5) NMAC proposed. The assessment provided in the report's cover letter stated "In comparing the analytical to the background and the lab PQL, the analytical was below the limits. I can't explain why the TPH was elevated, but will monitor in future sampling." If a different facility background data set was utilized for the assessment, please provide OCD a copy of the laboratory data set in order to establish an updated and revised facility background with OCD. If not, please demonstrate compliance to 19.15.36.15.E.(5) NMAC and provide a response action plan.

OCD compared the 2000 background data set to the April 2015 bi-annual treatment zone and vadose zone monitoring results and determined common exceedances to all cells for arsenic, barium, chromium, and lead. None of these exceedances recognized in the assessment or recommended for the release response sampling of 19.15.36.15.E.(5) NMAC. The assessment

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



May 18, 2015

Mr. Jimmy Cooper DD Landfarm P.O. Box 36 Monument, New Mexico 88265

RE: 2014 Bi-Annual Sampling and Five Year Monitoring Report Review

DD Landfarm Permit NM1-034

Location: W/2 W/2 of Section 31, Township 21 South, Range 39 East, NMPM,

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of DD Landfarm's (DD) May 2014 Annual Vadose Zone and Five Year Vadose Zone Monitoring Report; November 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; April 2015 Bi-Annual Treatment and Vadose Zone Monitoring Report; and the July 2014 Release Response Report for Cell 3. OCD appreciates DD's efforts to implement changes to your monitoring protocols to comply with the requests in OCD's 2013 Bi-Annual Sampling and Five Year Monitoring Report Review, dated April 10, 2014. The review of the 2014 and 2015 monitoring data has resulted in the discovery of some issues that must be addressed in order for DD to remain compliant with Permit NM1-034 and 19.15.36 NMAC.

OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually" to semi-annual in 2009. OCD has been unable to locate DD's modification request for the change in sampling frequency or OCD's approval for such a modification request. Please provide OCD a copy of DD's modification request and OCD approval in order to continue the semi-annual sampling frequency. If DD is unable to demonstrate the approval, DD shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD's letter dated June 30, 2011 and titled "Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms" for expectation of compliance.

DD Landfarm

Box 36

Monument, NM 88265

RECEIVED OCD

2015 JUN -2 P 3: 17

NMOCD Environmental

ATTN: Brad Jones

1220 South St. Francis Drive

Santa Fe, NM 87505

RE: C & C Landfarm

Mr. Jones:

As owner and operator of C & C Landfarm, we have received your recent request for additional information at our facility. Our consultant is going to be gone until June 13th, 2015. We are requesting an extension of time to prepare the information the OCD needs.

Your favor to an extension would be appreciated.

Junio B. Cooper

Thanks,

DD Landfarm

Jimmie B. Cooper

1-254-493-9082

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



May 18, 2015

Mr. Jimmy Cooper DD Landfarm P.O. Box 36 Monument, New Mexico 88265

RE: 2014 Bi-Annual Sampling and Five Year Monitoring Report Review

DD Landfarm Permit NM1-034

Location: W/2 W/2 of Section 31, Township 21 South, Range 39 East, NMPM,

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of DD Landfarm's (DD) May 2014 Annual Vadose Zone and Five Year Vadose Zone Monitoring Report; November 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; April 2015 Bi-Annual Treatment and Vadose Zone Monitoring Report; and the July 2014 Release Response Report for Cell 3. OCD appreciates DD's efforts to implement changes to your monitoring protocols to comply with the requests in OCD's 2013 Bi-Annual Sampling and Five Year Monitoring Report Review, dated April 10, 2014. The review of the 2014 and 2015 monitoring data has resulted in the discovery of some issues that must be addressed in order for DD to remain compliant with Permit NM1-034 and 19.15.36 NMAC.

OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually" to semi-annual in 2009. OCD has been unable to locate DD's modification request for the change in sampling frequency or OCD's approval for such a modification request. Please provide OCD a copy of DD's modification request and OCD approval in order to continue the semi-annual sampling frequency. If DD is unable to demonstrate the approval, DD shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD's letter dated June 30, 2011 and titled "Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms" for expectation of compliance.

Mr. Cooper DD Landfarms Permit NM-1-034 May 18, 2015 Page 3 of 3

provided in the report's cover letter stated "The tests were compared to the background and the PQL, and all were within limits." If a different facility background data set was utilized for the assessment, please provide OCD a copy of the laboratory data set in order to establish an updated and revised facility background with OCD. If not, please demonstrate compliance to 19.15.36.15.E.(5) NMAC.

Please note that the submittal of treatment zone monitoring results alone does not constitute a request for a successive/additional lift. The permit condition specifies "Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated soils." OCD requires such request to be made under a separate cover from other reporting and include the supporting analytical results and an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained.

Please provide OCD a copy of DD's modification request and OCD approval in order to continue the semi-annual sampling frequency within 45 days of the date of this letter. Please provide OCD a copy of the laboratory data set used for the background/PQL data set, in order to establish an updated and revised facility background with OCD within 45 days of the date of this letter. If the 2000 background data set is the only background data for the comparison to determine whether a release has occurred in the vadose zone, please demonstrate compliance to 19.15.36.15.E.(5) NMAC by initiated the additional sampling for the landfarm cells that demonstrate exceedances in the May 2014 Annual Vadose Zone and Five Year Vadose Zone Monitoring Report and the April 2015 Bi-Annual Treatment and Vadose Zone Monitoring Report and submit a response action plan to address the exceedances July 2014 Release Response Report for Cell 3 within 90 days of the date of this letter.

OCD has implemented some new policies for submittal. For future submittals, please include a cover letter from the owner/operator, on the owner's/operator's company letterhead, that recognizes the owner/operator has reviewed the submittal, signed by the owner/operator. Also, please provide an updated facility map, for each individual sampling event, that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

DD LANDFARM (NM-01-0034)

SEMI-ANNUAL TEST



March 30, 2015

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (NM-01-0034) BI-ANNUAL MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 03/18/15 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab-accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Celeg & Keine

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois

Project Number: DD LF

30-Mar-15 16:34

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - T	H500731-01	Soil	17-Mar-15 08:45	18-Mar-15 09:35
CELL 2 - T	H500731-02	Soil	17-Mar-15 09:10	18-Mar-15 09:35
CELL 3 - T	H500731-03	Soil	17-Mar-15 09:30	18-Mar-15 09:35
CELL 1-V	H500731-04	Soil	17-Mar-15 10:40	18-Mar-15 09:35
CELL 2 - V	H500731-05	Soil	17-Mar-15 11:15	18-Mar-15 09:35
CELL 3 - V	H500731-06	Soil	17-Mar-15 13:30	18-Mar-15 09:35

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keine



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - T

H500731-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Patch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds			×1							
Chloride	ND		16.0	mg/kg	4	5031805	AP	18-Mar-15	4500-C1-B	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
DRO >C10-C28	39.1		10.0	mg∕kg	1	5031802	MS	18-Mar-15	8015B	
EXT DRO >C28-C35	29.3		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctane			88.7 %	47.2-	-157	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			90.3 %	52.1-	-176	5031802	MS	18-Mar-15	8015B	

Cardinal Laboratories *=Accredited Analyte

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Celley & Kiene



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

Project Manager: Eddie Seay

30-Mar-15 16:34

Fax To: (505) 392-6949

CELL 2 - T H500731-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	5031805	ΛP	18-Mar-15	4500-CI-B	
Petroleum Hydrocarbons by GC FI	D									
GRO C6-C10	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
DRO >C10-C28	121		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
EXT DRO >C28-C35	96.0		10.0	mg/kg	ł	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctane			96.6 %	47.2	-157	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			104 %	52.1-	-176	5031802	MS	18-Mar-15	8015B	

Cardinal Laboratories *=Accredited Analyte

TIME BETT: Lability and Dathsone of affords for an electric website visited website in the proof of the control of the proof of the pro

Celly Estrene -



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL3-T H500731-03 (Soil)

1												- 1
	Analyte	Re	sult	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

ND	16.0	mg/kg	4	5031805	AP	18-Mar-15	4500-CI-B
ND	10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B
63.8	10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B
49.1	10.0	mg/kg	ì	5031802	MS	18-Mar-15	8015B
	94.1 %	47.2-	157	5031802	MS	18-Mar-15	8015B
	102 %	52.1-	176	5031802	MS	18-Mar-15	8015B
	ND 63.8	ND 10.0 63.8 10.0 49.1 10.0 94.1 %	ND 10.0 mg/kg 63.8 10.0 mg/kg 49.1 10.0 mg/kg 94.1 % 47.2-	ND 10.0 mg/kg 1 63.8 10.0 mg/kg 1 49.1 10.0 mg/kg 1 94.1 % 47.2-157	ND 10.0 mg/kg 1 5031802 63.8 10.0 mg/kg 1 5031802 49.1 10.0 mg/kg 1 5031802 94.1 % 47.2-157 5031802	ND 10.0 mg/kg 1 5031802 MS 63.8 10.0 mg/kg 1 5031802 MS 49.1 10.0 mg/kg 1 5031802 MS 94.1 % 47.2-157 5031802 MS	ND 10.0 mg/kg 1 5031802 MS 18-Mar-15 63.8 10.0 mg/kg 1 5031802 MS 18-Mar-15 49.1 10.0 mg/kg 1 5031802 MS 18-Mar-15 94.1 % 47.2-157 5031802 MS 18-Mar-15

Cardinal Laboratories *=Accredited Analyte

ALFACE EXPLICE validity and Paragras Conditions below, and contains sensely for any case caming above to near a contain that point to the precision of the project, and contain the project and other companies that are desired under another mode in writing and received by Condition within that (20) days after completion of the applicable centre. In the event shall be determed under mode in writing and received by Condition within that (20) days after completion of the applicable centre. In the event shall be faith for incident an expression of any and an extension of the applicable centre. claim to based upon any of the above stated routines or otherwise. Perculae related only to the samples libertified above. This repart dust not be reproduced enough in full with retition apparent of Cardinal Laborations.

Celly there-



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

Project Manager: Eddie Seay

30-Mar-15 16:34

Fax To: (505) 392-6949

CELL 1 - V H500731-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	97.6		20.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	5020506	AΡ	23-Mar-15	310.1	
Chloride	ND		16.0	mg/kg	4	5031805	AP	18-Mar-15	4500-CI-B	
Conductivity	112		0.250	uS/cm	1	5031807	AP	18-Mar-15	120.1	
рН^	8.17		0.100	pH Units	1	5031808	AP	18-Mar-15	9045	
Sulfate	ND		100	mg/kg	10	5032003	AΡ	20-Mar-15	375.4	
Alkalinity, Total*	80.0		16.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Volatile Organic Compounds by EPA	A Method 802	1								
Benzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	61-1	154	5032009	ms	20-Mar-15	8021B	
Petroleum Hydrocarbons by GC FII	D									
GRO C6-C10	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
EXT DRO >C28-C35	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctane			87.3 %	47.2-	157	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			97.1 %	52.1-	176	5031802	MS	18-Mar-15	8015B	

Green Analytical Laboratories

General Chemistry								
% Dry Solids	99.1	0/0	1	B503205	LLG	25-Mar-15	EPA160.3	Н2

Cardinal Laboratories

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Celey & Keine



Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois

Project Number: DD LF

30-Mar-15 16:34

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - V II500731-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Lab	oratories					
Total Metals by ICP										
Calcium	685		100	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Copper	2.14	0.650	2.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Iron	2170		5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Magnesium	307		100	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Potassium	462		200	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Sodium	ND		200	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Zinc	5.75	0.792	5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	0.657		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Barium	12.9		0.500	mg∕kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Chromium	2.55		1.00	mg/kg dry	. 1000	B503225	JGS	27-Mar-15	6020 A	
Lead	2.20		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Manganese	28.7		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Total Mercury by CVAA										
Mercury	0.268		0.103	mg/kg dry	510	B503192	JGS	24-Mar-15	EPA7471	

Cardinal Laboratories

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported: 30-Mar-15 16:34

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - V H500731-05 (Soil)

Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	39.0		20.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	5020506	ΑP	23-Mar-15	310.1	
Chloride	ND		16.0	mg/kg	4	5031805	AP	18-Mar-15	4500-CI-B	
Conductivity	39.1		0.250	uS/cm	ì	5031807	AP	18-Mar-15	120.1	
pH ⁴	7.57		0.100	pH Units	1	5031808	AP	18-Mar-15	9045	
Sulfate	ND		100	mg/kg	10	5032003	AP	20-Mar-15	375.4	
Alkalinity, Total*	32.0		16.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Volatile Organic Compounds by EP.	A Method 802	1								
Benzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Surrogate: 4-Bromoftworobenzene (PID)			105 %	61-	154	5032009	ms	20-Mar-15	8021B	
Petroleum Hydrocarbons by GC FII	0									
GRO C6-C10	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
EXT DRO >C28-C35	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctane			86.2 %	47.2-	157	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			90.8 %	52.1-	176	5031802	MS	18-Mar-15	8015B	

Green Analytical Laboratories

General Chemistry								
% Dry Solids	99.6	%	1	B503205	LLG	25-Mar-15	EPA160.3	Н2

Cardinal Laboratories

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Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

Hobbs NM, 88242

Project Number: DD LF

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2-V H500731-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Analy	ytical Labo	oratories					
Total Metals by ICP										
Calcium	340		100	mg/kg dry	100	B503224	J GS	27-Mar-15	EPA6010 B	
Copper	1.79	0.650	2.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	J
Iron	2320		5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Magnesium	269		100	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Potassium	430		200	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Sodium	ND		200	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Zinc	5.41	0.792	5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	NĐ		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Barium	9.17		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Cadmium	NĐ		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Chromium	2.33		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Lead	1.37		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Manganese	17.4		1.00	mg/kg dry	1000	B503225	JG\$	27-Mar-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A	
Total Mercury by CVAA										
Mercury	0.216		0.0984	mg/kg dry	490	B503192	JGS	24-Mar-15	EPA7471	

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

Comi

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - V H500731-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
			Cardina	l Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	78.0		20.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	5020506	ΑP	23-Mar-15	310.1	
Chloride	ND		16.0	mg/kg	4	5031805	AP	18-Mar-15	4500-C1-B	
Conductivity	69.0		0.250	uS/cm	1	5031807	AP	18-Mar-15	120.1	
pH*	8.13		0.100	pH Units	1	5031808	AP	18-Mar-15	9045	
Sulfate	ND		100	mg/kg	10	5032003	AP	20-Mar-15	375.4	
Alkalinity, Total*	64.0		16.0	mg/kg	4	5020506	AP	23-Mar-15	310.1	
Volatile Organic Compounds by EP.	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Totał Xylenes*	ND		0.150	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5032009	ms	20-Mar-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106%	61-1	54	5032009	ms	20-Mar-15	8021B	
Petroleum Hydrocarbons by GC FI	<u> </u>									
GRO C6-C10	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
EXT DRO >C28-C35	ND		10.0	mg/kg	1	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctane	,		89.0 %	4 7.2-	157	5031802	MS	18-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			93.7 %	52.1-	176	5031802	MS	18-Mar-15	8015B	

Green Analytical Laboratories

General Chemistry								
% Dry Solids	99.5	%	1	B503205	LLG	25-Mar-15	EPA160.3	H2

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - V H500731-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Green Analytical Laboratories													
Total Metals by ICP													
Calcium	549		100	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B				
Copper	1.67	0.650	2.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B	J			
Iron	2540		5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B				
Magnesium	320		100	mg/kg dry	100	B503224	J GS	27-Mar-15	EPA6010 B				
Potassium	562		200	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B				
Sodium	ND		200	mg/kg dry	100	B503224	J GS	27-Mar-15	EPA6010 B				
Zinc	5.93	0.792	5.00	mg/kg dry	100	B503224	JGS	27-Mar-15	EPA6010 B				
Total Metals by ICPMS													
Arsenic	0.518		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Barium	11.6		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Cadmium	ND		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Chromium	2.52		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Lead	2.02		0.500	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Manganese	24.6		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Selenium	ND		1.00	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Silver	ND		0.100	mg/kg dry	1000	B503225	JGS	27-Mar-15	6020 A				
Total Mercury by CVAA													
Mercury	0.307		0.0995	mg/kg dry	495	B503192	JGS	24-Mar-15	EPA7471				

Cardinal Laboratories

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

30-Mar-15 16:34

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020506 - General Prep - Wet Chem										
Blank (5020506-BLK1)				Prepared: ()5-Feb-15 A	nalyzed: 0	6-Feb-15			
Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	4.00	mg/kg							
LCS (5020506-BS1)				Prepared: (5-Feb-15 A	nalyzed: 0	6-Feb-15			
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120			
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120			
LCS Dup (5020506-BSD1)				Prepared: (5-Feb-15 A	nalyzed: 0	6-Feb-15			
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120	•	20	
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120	0.00	20	
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120	0.00	20	
Batch 5031805 - 1:4 DI Water										
Blank (5031805-BLK1)				Prepared &	Analyzed:	18-Mar-15				
Chloride	ND	16.0	mg/kg	, , , , , , , , , , , , , , , , , , , ,						
LCS (5031805-BS1)				Prepared &	: Analyzed:	18-Mar-15				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5031805-BSD1)				Prepared &	Analyzed:	18-Mar-15				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 5031807 - General Prep - Wet Chem										
LCS (5031807-BS1)				Prepared &	Analyzed:	18-Mar-15				
Conductivity	484		uS/cm	500		96.8	80-120			

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois

Project Number: DD LF

30-Mar-15 16:34

Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

	.,	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031807 - General Prep - Wet Chem										
Duplicate (5031807-DUP1)	Sour	ce: H500731	-04	Prepared &	Analyzed:	18-Mar-15				
Conductivity	113	0.250	uS/cm		112			0.355	20	
Batch 5031808 - General Prep - Wet Chem										
LCS (5031808-BS1)				Prepared &	Analyzed:	18-Mar-15				
рН	7.06		pH Units	7.00		101	90-110			
Duplicate (5031808-DUP1)	Sour	ce: H500711	-01	Prepared &	Analyzed:	18-Mar-15				
рН	7.11	0.100	pH Units		7.11			0.00	20	
Batch 5032003 - General Prep - Wet Chem										
Blank (5032003-BLK1)				Prepared &	Analyzed:	20-Mar-15				
Sulfate	ND	10.0	mg/kg							
LCS (5032003-BS1)				Prepared &	Analyzed:	20-Mar-15				
Sulfate	16.3	10.0	mg/kg	20.0		81.7	80-120			
LCS Dup (5032003-BSD1)				Prepared &	Analyzed:	20-Mar-15				
Sulfate	18.4	10.0	mg/kg	20.0		91.8	80-120	11.7	20	

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois

Project Number: DD LF

30-Mar-15 16:34

Hobbs NM, 88242 Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

			Spike						
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	20-Mar-15	,			
ND	0.050	mg/kg							
ND	0.050	mg/kg							
ND	0.050	mg/kg							
ND	0.150	mg/kg							
ND	0.300	mg/kg							
0.0527		mg/kg	0.0500		105	61-154			
			Prepared &	Analyzed:	20-Mar-15	,			
2.32	0.050	mg/kg	2.00		116	77.1-114			BSI
2.10	0.050	mg/kg	2.00		105	67-114			
2.08	0.050	mg/kg	2.00		104	63.5-121			
6.31	0.150	mg/kg	6.00		105	62.4-125			
0.0491		mg/kg	0.0500		98.2	61-154			
			Prepared &	Analyzed:	20-Mar-15	i			
2.40	0.050	mg/kg	2.00		120	77.1-114	3.59	16.4	BS1
2.17	0.050	mg/kg	2.00		108	67-114	3.14	16.2	
2.15	0.050	mg/kg	2.00		108	63.5-121	3.20	17	
6.54	0.150	mg/kg	6.00		109	62.4-125	3.52	17	
0.0488		mg/kg	0.0500		97.6	61-154			
	ND ND ND ND ND 0.0527 2.32 2.10 2.08 6.31 0.0491 2.40 2.17 2.15 6.54	ND 0.050 ND 0.050 ND 0.050 ND 0.150 ND 0.300 0.0527 2.32 0.050 2.10 0.050 2.08 0.050 6.31 0.150 0.0491 2.40 0.050 2.17 0.050 2.15 0.050 6.54 0.150	ND 0.050 mg/kg ND 0.050 mg/kg ND 0.050 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg ND 0.300 mg/kg 0.0527 mg/kg 2.32 0.050 mg/kg 2.10 0.050 mg/kg 2.08 0.050 mg/kg 6.31 0.150 mg/kg 0.0491 mg/kg 2.40 0.050 mg/kg 2.17 0.050 mg/kg 2.17 0.050 mg/kg 2.15 0.050 mg/kg 0.050 mg/kg	Prepared & ND 0.050 mg/kg ND 0.050 mg/kg ND 0.050 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg ND 0.300 mg/kg ND 0.300 mg/kg 0.0500 mg/kg 2.00 2.10 0.050 mg/kg 2.00 2.08 0.050 mg/kg 2.00 6.31 0.150 mg/kg 6.00 Prepared & 0.0500 mg/kg 2.00 6.31 0.150 mg/kg 2.00 6.31 0.150 mg/kg 0.0500 mg/kg 2.00 6.31 0.150 mg/kg 0.0500 mg/kg 2.00 6.31 0.150 mg/kg 0.0500 mg/kg 2.00 6.54 0.150 mg/kg 6.00	Prepared & Analyzed: NID 0.050 mg/kg NID 0.050 mg/kg NID 0.050 mg/kg NID 0.150 mg/kg NID 0.300 mg/kg NID 0.300 mg/kg O.0527 mg/kg Prepared & Analyzed: 2.32 0.050 mg/kg 2.00 2.10 0.050 mg/kg 2.00 2.08 0.050 mg/kg 2.00 2.08 0.050 mg/kg 0.0500 Prepared & Analyzed: 0.0491 mg/kg 0.0500 Prepared & Analyzed: 2.40 0.050 mg/kg 2.00 2.17 0.050 mg/kg 2.00 2.15 0.050 mg/kg 2.00 6.54 0.150 mg/kg 6.00	Prepared & Analyzed: 20-Mar-15 ND 0.050 mg/kg ND 0.050 mg/kg ND 0.050 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg ND 0.300 mg/kg 2.0527 mg/kg 2.00 105 Prepared & Analyzed: 20-Mar-15 2.32 0.050 mg/kg 2.00 105 2.08 0.050 mg/kg 2.00 104 6.31 0.150 mg/kg 6.00 105 2.08 0.050 mg/kg 2.00 105 2.08 0.050 mg/kg 2.00 105 2.08 0.050 mg/kg 2.00 104 6.31 0.150 mg/kg 2.00 105 2.08 0.050 mg/kg 2.00 105 2.08 0.050 mg/kg 2.00 108 6.54 0.050 mg/kg 2.00 108 6.54 0.050 mg/kg 2.00 108	Prepared & Analyzed: 20-Mar-15 ND 0.050 mg/kg ND 0.050 mg/kg ND 0.050 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg ND 0.300 mg/kg 0.0527 mg/kg Prepared & Analyzed: 20-Mar-15 2.32 0.050 mg/kg 2.00 116 77.1-114 2.10 0.050 mg/kg 2.00 105 67-114 2.08 0.050 mg/kg 2.00 104 63.5-121 6.31 0.150 mg/kg 6.00 105 62.4-125 0.0491 mg/kg 0.0500 98.2 61-154 Prepared & Analyzed: 20-Mar-15 2.40 0.050 mg/kg 2.00 108 67-114 2.17 0.050 mg/kg 2.00 108 67-114 2.18 0.050 mg/kg 2.00 108 67-114 2.19 0.050 mg/kg 2.00 108 67-114 2.11 0.050 mg/kg 2.00 108 67-114 2.12 0.050 mg/kg 2.00 108 63.5-121 6.54 0.150 mg/kg 6.00 109 62.4-125	ND	Prepared & Analyzed: 20-Mar-15

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Celey & Keine

%REC



Analytical Results For:

Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LF

30-Mar-15 16:34

RPD

Project Manager: Eddie Seay Fax To: (505) 392-6949

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031802 - General Prep - Organics										
Blank (5031802-BLK1)				Prepared &	Analyzed:	18-Mar-15	;			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	47.2-157			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.8	52.1-176			
LCS (5031802-BS1)				Prepared &	Analyzed:	18-Mar-15	;			
3RO C6-C10	200	10.0	mg/kg	200		99.8	72.5-115			
DRO >C10-C28	213	10.0	mg/kg	200		106	81.3-118			
Total TPH C6-C28	412	10.0	mg/kg	400		103	80-113			
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	47.2-157			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	52.1-176			
CCS Dup (5031802-BSD1)				Prepared &	Analyzed:	18-Mar-15	;			
3RO C6-C10	209	10.0	mg/kg	200		105	72.5-115	4.57	10.1	
DRO >C10-C28	218	10.0	mg/kg	200		109	81.3-118	2.49	15.3	
Total TPH C6-C28	427	10.0	mg/kg	400		107	80-113	3.50	12.1	
Surrogate: 1-Chlorooctane	52.2	1.51.5	mg/kg	50.0		104	47.2-157			
Surrogate: 1-Chiorooctadecane	50.9		mg/kg	50.0		102	52.1-176			

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%REC



Analytical Results For:

Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Source

101

99.9

108

85-115

85-115

85-115

0.389

0.0324

3.84

20

20

20

Reported:

RPD

601 W. Illinois

Sodium

Copper

Magnesium

Copper

Potassium

Project Number: DD LF Project Manager: Eddie Seay 30-Mar-15 16:34

Hobbs NM, 88242

Fax To: (505) 392-6949

Spike

Total Metals by ICP - Quality Control

Green Analytical Laboratories

Reporting

ND

0.022

20.2

4.00

8 62

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B503224 - EPA 3050										
Blank (B503224-BLK1)				Prepared &	Analyzed:	27-Mar-15				
Calcium	ND	1.00	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Zinc	ND	0.050	mg/kg dry							

2.00 mg/kg dry

0.020 mg/kg dry

Iron	ND	0.050	mg/kg dry					
Potassium	ND	2.00	mg/kg dry					
LCS (B503224-BS1)				Prepared & Analy	zed: 27-Mar-15			
Magnesium	20.1	1.00	mg/kg dry	20.0	100	85-115		
Sodium	6.15	2.00	mg/kg dry	6.48	94.9	85-115		
Potassium	8.30	2.00	mg/kg dry	8.00	104	85-115		
Copper	4.00	0.020	mg/kg dry	4.00	99.9	85-115		
Calcium	3.87	1.00	mg/kg dry	4.00	96.9	85-115		
Iron	3.96	0.050	mg/kg dry	4.00	98.9	85-115		
Zinc	1.90	0.050	mg/kg dry	2.00	95.2	85-115		
LCS Dup (B503224-BSD1)				Prepared & Analy	zed: 27-Mar-15			
Calcium	3.78	1.00	mg/kg dry	4.00	94.4	85-115	2.58	20
Sodium	5.96	2.00	mg/kg dry	6.48	92.0	85-115	3.04	20
Iron	3.98	0.050	mg/kg dry	4.00	99.5	85-115	0.590	20
Zinc	1.90	0.050	mg/kg dry	2.00	94.9	85-115	0.336	20

1.00 mg/kg dry

0.020 mg/kg dry

2.00 mg/kg dry

20.0

4.00

8 00

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Eddie Seay Consulting

Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

601 W. Illinois

Project Number: DD LF

30-Mar-15 16:34

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
D. I. December TD. Conto.										

Blank (B503225-BLK1)				Prepared & Ana	lyzed: 27-Mar-15				
Cadmium	ND	0.0005	mg/kg dry						
Chromium	ND	0.0010	mg/kg dry						
Lead	ND	0.0005	mg/kg dry						
Selenium	ND	0.0010	mg/kg dry						
Barium	ND	0.0005	mg/kg dry						
Silver	ND	0.0001	mg/kg dry						
Arsenic	ND	0.0005	mg/kg dry						
Manganese	0.0025	0.0010	mg/kg dry						B1
LCS (B503225-BS1)				Prepared & Ana	yzed: 27-Mar-15				
Lead	0.0469	0.0005	mg/kg dry	0.0500	93.8	85-115			
Cadmium	0.0465	0.0005	mg/kg dry	0.0500	92.9	85-115			
Manganese	0.0524	0.0010	mg/kg dry	0.0500	105	85-115			
Barium	0.0470	0.0005	mg/kg dry	0.0500	94.1	85-115			
Chromium	0.0496	0.0010	mg/kg dry	0.0500	99.1	85-115			
Silver	0.0467	0.0001	mg/kg dry	0.0500	93.5	85-115			
Selenium	0.237	0.0010	mg/kg dry	0.250	95.0	85-115			
Arsenic	0.0515	0.0005	mg/kg dry	0.0500	103	85-115			
LCS Dup (B503225-BSD1)				Prepared & Anal	yzed: 27-Mar-15				
Manganese	0.0546	0.0010	mg/kg dry	0.0500	109	85-115	4.11	20	
Silver	0.0489	0.0001	mg/kg dry	0.0500	97.9	85-115	4.60	20	
Barium	0.0499	0.0005	mg/kg dry	0.0500	99.7	85-115	5.85	20	
Chromium	0.0547	0.0010	mg/kg dry	0.0500	109	85-115	9.81	20	
Selenium	0.258	0.0010	mg/kg dry	0.250	103	85-115	8.24	20	
Lead	0.0517	0.0005	mg/kg dry	0.0500	103	85-115	9.69	20	
Arsenic	0.0559	0.0005	mg/kg dry	0.0500	112	85-115	8.08	20	
Cadmium	0.0502	0.0005	mg/kg dry	0.0500	100	85-115	7.78	20	

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Eddie Seay Consulting

601 W. Illinois Hobbs NM, 88242 Project: DD LANDFARM (NM-01-0034) BI-A

Reported:

30-Mar-15 16:34

Project Number: DD LF
Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B503192 - EPA 7471										
Blank (B503192-BLK1)				Prepared &	Analyzed:	24-Mar-15				
Mercury	ND	0.0002	mg/kg wet							
LCS (B503192-BS1)				Prepared &	Analyzed:	24-Mar-15				
Mercury	0.0018	0.0002	mg/kg wet	0.00200		88.1	85-115			
LCS Dup (B503192-BSD1)				Prepared &	Analyzed:	24-Mar-15				
Mercury	0.0019	0.0002	mg/kg wet	0.00200		95.6	85-115	8.17	20	

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Notes and Definitions

ı	Estimated conentration. Analyte concentration between MDL and RL.
12	Sample analysis performed past hold time specified by the method.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
O49	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
**	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an ac received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

Anione Anione Wacc matal REQUEST

Sample Condition
Cool Intact
Pres Ores
No No

Secry of @ loss net

V - Vaplose zona

T - Treatment zone

Sampler · UPS · Bus · Other: 2.(1

Delivered By: (Circle One)

Relinquished By:

w will inquished By

Time: 9:35

Phone Result:
Fax Result:
REMARKS:

□ □ Yes

8.8 E

Add'l Phone #: Add'l Fax #:

Received By:

Time: