NM1 - _34__

MONITORING REPORT

YEAR(S):

2017-2018

DD LANDFARM BOX 36 MONUMENT, NM 88265

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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.

Junnie B. Cooper

Jimmie B. Cooper Owner - Operator DD Landfarm 1-254-493-9082

April 2017

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 and WQCC Metals.

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

We are continuing with our closing, we are in the second growing season for the facility and hope to have final closure at end of year.

Should you have any questions, please call.

Thanks,

Zeli h

Eddie Seay Consulting, Agent 601 W. Illinois Hobbs, NM 88242 575-392-2236 seay04@leaco.net

cc: DD Landfarm

Google earth Survey Google earth 1000 feet meters Approx. sampling locations . DD Lowtrown Mourel 2017

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 06, 2017

Jim Cooper DD Landfarm Box 36 Monument, NM 88265 TEL: (575) 390-2454 FAX

RE: DD Landfarm

OrderNo.: 1703D74

Dear Jim Cooper:

Hall Environmental Analysis Laboratory received 18 sample(s) on 3/28/2017 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 <u>www.hallenvironmental.com</u> 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 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report	
Lab Order 1703D74	

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2017

CLIENT: DD Landfarm		Client Sample ID: Cell 1-T						
Project: DD Landfarm			Collection I	Date: 3/26/2	017 6:30:00 AM			
Lab ID: 1703D74-001	Matrix:	Matrix: SOIL Received Date: 3/28/2017 9:45:00 A						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst: LGT			
Chloride	ND	1.5	mg/Kg	1	3/31/2017 2:02:46 PM			
EPA METHOD 418.1: TPH					Analyst: MAB			
Petroleum Hydrocarbons, TR	56	18	mg/Kg	1	4/3/2017			

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

- Value exceeds Maximum Contaminant Level. ۰
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- B Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits Page 1 of 25 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74 Date Reported: 4/6/2017

3/31/2017 3:17:13 PM

4/3/2017

Analyst: MAB

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm Client Sample ID: Cell 2-T Collection Date: 3/26/2017 6:50:00 AM DD Landfarm 1703D74-002 Matrix: SOIL Received Date: 3/28/2017 9:45:00 AM DF Result **PQL** Qual Units **Date Analyzed EPA METHOD 300.0: ANIONS** Analyst: LGT

mg/Kg

mg/Kg

1.5

20

ND

160

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

Qualifiers:

Project:

Lab ID:

Analyses

Chloride

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

- ٠ 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 S
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 25 J
- P Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Hall Environmental Anal	ysis Labora	tory, Inc.			o Order 1703D74 te Reported: 4/6/2017	
CLIENT: DD Landfarm			Client Sample	e ID: Cell 3-	-T	
Project: DD Landfarm	Collection Date: 3/26/2017 7:15:00 AM					
Lab ID: 1703D74-003	Matrix:	SOIL	ate: 3/28/2017 9:45:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS		1			Analyst: LGT	
Chloride	4.3	1.5	mg/Kg	1	3/31/2017 3:42:03 PM	
EPA METHOD 418.1: TPH					Analyst: MAB	
Petroleum Hydrocarbons, TR	47	19	mg/Kg	1	4/3/2017	

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

Qualifiers:

- ٠ 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
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 25 J

Analytical Report

- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74

Date Reported: 4/6/2017

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Hall Environmental Analysis Laboratory, Inc.

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CLIENT: DD Landfarm	Client Sample ID: Cell 1-1V						
Project: DD Landfarm			Collection D	ate: 3/26/2	017 8:00:00 AM		
Lab ID: 1703D74-004	Matrix:	SOIL	Received D	ate: 3/28/2	017 9:45:00 AM		
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: LGT		
Chloride	ND	1.5	mg/Kg	1	3/31/2017 4:06:52 PM		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	3/29/2017 8:35:37 PM		
Benzena	ND	0.024	mg/Kg	1	3/29/2017 8:35:37 PM		
Toluene	ND	0.049	mg/Kg	1	3/29/2017 8:35:37 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	3/29/2017 8:35:37 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	3/29/2017 8:35:37 PM		
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	3/29/2017 8:35:37 PM		
Surr: 4-Bromofluorobenzene	91.6	70-130	%Rec	1	3/29/2017 8:35:37 PM		
Surr: Dibromofluoromethane	114	70-130	%Rec	1	3/29/2017 8:35:37 PM		
Surr. Toluene-d8	95.0	70-130	%Rec	1	3/29/2017 8:35:37 PM		
EPA METHOD 418.1: TPH					Analyst: MAE		
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	1	4/3/2017		

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 4 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74 Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm	Client Sample ID: Cell 1-2V						
Project: DD Landfarm	Collection Date: 3/26/2017 8:25:00 AM						
Lab ID: 1703D74-005	Matrix:	SOIL	Received D	ate: 3/28/2	017 9:45:00 AM		
Analyses	Result	PQL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS				· ·	Analyst: LGT		
Chloride	ND	1.5	mg/Kg	1	3/31/2017 4:31:40 PM		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	3/29/2017 9:04:15 PM		
Benzene	ND	0.025	mg/Kg	1	3/29/2017 9:04:15 PM		
Toluene	ND	0.049	mg/Kg	1	3/29/2017 9:04:15 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	3/29/2017 9:04:15 PM		
Xyienes, Total	ND	0.099	mg/Kg	1	3/29/2017 9:04:15 PM		
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	3/29/2017 9:04:15 PM		
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	3/29/2017 9:04:15 PM		
Surr: Dibromofluoromethane	108	70-130	%Rec	1	3/29/2017 9:04:15 PM		
Surr. Toluene-d8	96.8	70-130	%Rec	1	3/29/2017 9:04:15 PM		
EPA METHOD 418.1: TPH					Analyst: MAB		
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	4/3/2017		

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

- ۰ 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
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 25 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1703D74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2017

CLIENT: DD Landfarm	Client Sample ID: Cell 1-3V						
Project: DD Landfarm	Collection Date: 3/26/2017 8:55:00 AM						
Lab ID: 1703D74-006	Matrix:	SOIL	Received D	Received Date: 3/28/2017 9:45:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	1.5	mg/Kg	1	4/3/2017 11:37:37 AM		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	3/29/2017 11:26:45 PM		
Benzene	ND	0.024	mg/Kg	1	3/29/2017 11:26:45 PM		
Toluene	ND	0.048	mg/Kg	1	3/29/2017 11:26:45 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	3/29/2017 11:26:45 PM		
Xylenes, Total	ND	0.096	mg/Kg	1	3/29/2017 11:26:45 PM		
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	3/29/2017 11:26:45 PM		
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	3/29/2017 11:26:45 PM		
Surr: Dibromofluoromethane	109	70-130	%Rec	1	3/29/2017 11:26:45 PM		
Surr: Toluene-d8	97.5	70-130	%Rec	1	3/29/2017 11:26:45 PM		
EPA METHOD 418.1: TPH					Analyst: MAB		
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/3/2017		

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
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 25 J
- P Sample pH Not In Range
- **Reporting Detection Limit** RL
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm	Client Sample ID: Cell 1-4V						
Project: DD Landfarm			Collection D	ate: 3/26/2	017 9:15:00 AM		
Lab ID: 1703D74-007	Matrix:	SOIL	Received D	ate: 3/28/2	017 9:45:00 AM		
Analyses	Result	PQL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	1.5	mg/Kg	1	4/3/2017 12:52:03 PM		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	3/29/2017 11:55:13 PM		
Benzene	ND	0.024	mg/Kg	1	3/29/2017 11:55:13 PM		
Toluene	ND	0.049	mg/Kg	1	3/29/2017 11:55:13 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	3/29/2017 11:55:13 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	3/29/2017 11:55:13 PM		
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	3/29/2017 11:55:13 PM		
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	3/29/2017 11:55:13 PM		
Surr: Dibromofluoromethane	110	70-130	%Rec	· 1	3/29/2017 11:55:13 PM		
Surr: Toluene-d8	98.9	70-130	%Rec	1	3/29/2017 11:55:13 PM		
EPA METHOD 418.1: TPH					Analyst: MAB		
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	. 1	4/3/2017		

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

- ٠ 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
- S % 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 7 of 25 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1703D74

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm	Client Sample ID: Cell 2-1V						
Project: DD Landfarm	Collection Date: 3/26/2017 9:40:00 AM						
Lab ID: 1703D74-008	Matrix:	SOIL	Received D	Received Date: 3/28/2017 9:45:00 AM			
Analyses	Result	PQL Qua	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	1.5	mg/Kg	1	4/3/2017 1:16:52 PM		
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	3/30/2017 12:23:37 AM		
Benzene	ND	0.024	mg/Kg	1	3/30/2017 12:23:37 AM		
Toluene	ND	0.049	mg/Kg	1	3/30/2017 12:23:37 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	3/30/2017 12:23:37 AM		
Xylenes, Total	NÐ	0.097	mg/Kg	1	3/30/2017 12:23:37 AM		
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	3/30/2017 12:23:37 AM		
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	3/30/2017 12:23:37 AM		
Surr: Dibromofluoromethane	111	70-130	%Rec	1	3/30/2017 12:23:37 AM		
Surr: Toluene-d8	97.5	70-130	%Rec	1	3/30/2017 12:23:37 AM		
EPA METHOD 418.1: TPH					Analyst: MAB		
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/3/2017		

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 8 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm	Client Sample ID: Cell 2-2V						
Project: DD Landfarm	Collection Date: 3/26/2017 10:10:00 AM						
Lab ID: 1703D74-009	Matrix:	Received D	Received Date: 3/28/2017 9:45:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	1.5	mg/Kg	1	4/3/2017 1:41:41 PM		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF		
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	3/30/2017 12:52:32 AM		
Benzene	ND	0.024	mg/Kg	1	3/30/2017 12:52:32 AM		
Toluene	ND	0.048	mg/Kg	1	3/30/2017 12:52:32 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	3/30/2017 12:52:32 AM		
Xylenes, Total	ND	0.096	mg/Kg	· 1	3/30/2017 12:52:32 AM		
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	3/30/2017 12:52:32 AM		
Surr. 4-Bromofluorobenzene	88.6	70-130	%Rec	1	3/30/2017 12:52:32 AM		
Surr: Dibromofluoromethane	111	70-130	%Rec	1	3/30/2017 12:52:32 AM		
Surr: Toluene-d8	97.5	70-130	%Rec	1	3/30/2017 12:52:32 AM		
EPA METHOD 418.1: TPH					Analyst: MAB		
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	4/3/2017		

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

- ۰ 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
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 25 J
- Р Sample pH Not In Range
- **Reporting Detection Limit** RL
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1703D74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2017

CLIENT: DD Landfarm			Client Sample	e ID: Cell 2-	-3V
Project: DD Landfarm			Collection D	ate: 3/26/2	017 10:30:00 AM
Lab ID: 1703D74-010	Matrix:	Received D	ate: 3/28/2	017 9:45:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	4/3/2017 2:06:31 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	3/30/2017 1:21:09 AM
Benzene	ND	0.023	mg/Kg	1	3/30/2017 1:21:09 AM
Toluene	ND	0.047	mg/Kg	1	3/30/2017 1:21:09 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2017 1:21:09 AM
Xylenes, Total	ND	0.093	mg/Kg	1	3/30/2017 1:21:09 AM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	3/30/2017 1:21:09 AM
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	1	3/30/2017 1:21:09 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	3/30/2017 1:21:09 AM
Surr: Toluene-d8	98.2	70-130	%Rec	1	3/30/2017 1:21:09 AM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/3/2017

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

Qualifiers:

- ۰ Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- 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 Analyte detected in the associated Method Blank

- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 25 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Analytical Report

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm	Client Sample ID: Cell 2-4V Collection Date: 3/26/2017 10:50:00 AM					
Project: DD Landfarm						
Lab ID: 1703D74-011	Matrix:	SOIL	Re	ceived D	ate: 3/28/20)17 9:45:00 AM
Analyses	Result	PQL	Qual Un	its	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5	m	J/Kg	1	4/3/2017 2:31:19 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST					Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050	ករុ	j/Kg	1	3/30/2017 1:49:41 AM
Benzene	* ND	0.025	mg	ı/Kg	1	3/30/2017 1:49:41 AM
Toluene	ND	0.050	mg	j/Kg	1	3/30/2017 1:49:41 AM
Ethylbenzene	ND	0.050	mg	ı/Kg	1	3/30/2017 1:49:41 AM
Xylenes, Total	ND	0.099	m	g/Kg	1	3/30/2017 1:49:41 AM
Surr: 1,2-Dichloroethane-d4	100	70-130	%	Rec	1	3/30/2017 1:49:41 AM
Surr: 4-Bromofluorobenzene	91.1	70-130	%	Rec	1	3/30/2017 1:49:41 AM
Surr: Dibromofluoromethane	104	70-130	%	Rec	1	3/30/2017 1:49:41 AM
Surr: Toluene-d8	97.1	70-130	%	Rec	1	3/30/2017 1:49:41 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19	m	j/Kg	1	4/3/2017

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

Qualifiers:

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- 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
- S % 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 limitsPage 11 of 25 J
- Ρ Sample pH Not In Range
- **Reporting Detection Limit** RL
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1703D74 Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell 3-1V CLIENT: DD Landfarm Collection Date: 3/26/2017 11:20:00 AM **Project:** DD Landfarm 1703D74-012 Matrix: SOIL Received Date: 3/28/2017 9:45:00 AM Lab ID: **PQL Qual Units** DF **Date Analyzed** Analyses Result **EPA METHOD 300.0: ANIONS** Analyst: MRA ND 4/3/2017 3:20:57 PM Chloride 1.5 mg/Kg 1 Analyst: DJF **EPA METHOD 8260B: VOLATILES SHORT LIST** 3/30/2017 2:18:03 AM Methyl tert-butyl ether (MTBE) ND 0.047 mg/Kg 1 Benzene ND 0.023 mg/Kg 1 3/30/2017 2:18:03 AM Toluene ND 0.047 mg/Kg 1 3/30/2017 2:18:03 AM Ethylbenzene ND 0.047 mg/Kg 1 3/30/2017 2:18:03 AM Xylenes, Total ND 0.094 mg/Kg 1 3/30/2017 2:18:03 AM Surr: 1,2-Dichloroethane-d4 106 70-130 %Rec 1 3/30/2017 2:18:03 AM 87.6 70-130 %Rec 1 3/30/2017 2:18:03 AM Surr: 4-Bromofluorobenzene %Rec 3/30/2017 2:18:03 AM Surr: Dibromofluoromethane 70-130 1 111 70-130 %Rec 1 3/30/2017 2:18:03 AM Surr: Toluene-d8 96.9 EPA METHOD 418.1: TPH Analyst: MAB 20 4/3/2017 Petroleum Hydrocarbons, TR ND 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 12 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74

Hall Environmental Analysis Laboratory, Inc.

Lab Order 17031074 Date Reported: 4/6/2017

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CLIENT: DD Landfarm	Client Sample ID: Cell 3-2V				
Project: DD Landfarm			Collection D	ate: 3/26/2	017 11:40:00 AM
Lab ID: 1703D74-013	Matrix:	Matrix: SOIL Re			017 9:45:00 AM
Analyses	Result	PQL Qua	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	4/3/2017 3:45:46 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	3/30/2017 2:46:42 AM
Benzene	ND	0.025	mg/Kg	1	3/30/2017 2:46:42 AM
Toluene	ND	0.050	mg/Kg	1	3/30/2017 2:46:42 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2017 2:46:42 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/30/2017 2:46:42 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	3/30/2017 2:46:42 AM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1.	3/30/2017 2:46:42 AM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	3/30/2017 2:46:42 AM
Surr: Toluene-d8	95 .7	70-130	%Rec	1	3/30/2017 2:46:42 AM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	4/3/2017

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

- Value exoceds 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 13 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2017

CLIENT: DD Landfarm			Client Sample	D: Cell 3	-3V
Project: DD Landfarm			Collection D	ate: 3/26/2	017 12:10:00 PM
Lab ID: 1703D74-014	Matrix:	SOIL	Received D	ate: 3/28/2	017 9:45:00 AM
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	4/3/2017 4:10:36 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	3/30/2017 3:15:12 AM
Benzene	ND	0.024	mg/Kg	1	3/30/2017 3:15:12 AM
Toluene	ND	0.047	mg/Kg	1	3/30/2017 3:15:12 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2017 3:15:12 AM
Xylenes, Total	ND	0.094	mg/Kg	1	3/30/2017 3:15:12 AM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	3/30/2017 3:15:12 AM
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	3/30/2017 3:15:12 AM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	3/30/2017 3:15:12 AM
Surr: Toluene-d8	95.7	70-130	%Rec	1	3/30/2017 3:15:12 AM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	1	4/3/2017

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

- ٠ 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
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limitsPage 14 of 25 J
- P Sample pH Not In Range
- RL **Reporting Detection Limit**
- w Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm			Client Sample	ID: Cell 3	-4V
Project: DD Landfarm			Collection D	ate: 3/26/2	017 12:55:00 PM
Lab ID: 1703D74-015	Matrix:	SOIL	Received D	ate: 3/28/2	017 9:45:00 AM
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	······				Analyst: MRA
Chloride	ND	1.5	mg/Kg	1	4/3/2017 4:35:26 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	3/30/2017 3:43:54 AM
Benzene	ND	0.025	mg/Kg	1	3/30/2017 3:43:54 AM
Toluene	ND	0.050	mg/Kg	1	3/30/2017 3:43:54 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2017 3:43:54 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/30/2017 3:43:54 AM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	3/30/2017 3:43:54 AM
Surr: 4-Bromofluorobenzene	89.0	70-130	%Rec	1	3/30/2017 3:43:54 AM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	3/30/2017 3:43:54 AM
Surr: Toluene-d8	95.2	70-130	%Rec	1	3/30/2017 3:43:54 AM
EPA METHOD 418.1: TPH					Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	4/3/2017

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
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 25 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1703D74 Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm Client Sample ID: Cell-1-M Collection Date: 3/26/2017 1:00:00 PM **Project:** DD Landfarm Matrix: SOIL 1703D74-016 Received Date: 3/28/2017 9:45:00 AM Lab ID: DF **PQL Qual Units** Analyses Result **Date Analyzed EPA METHOD 7471: MERCURY** Analyst: ELS 0.033 1 4/3/2017 11:17:15 AM Mercurv ND mg/Kg Analyst: MED **EPA METHOD 6010B: SOIL METALS** 2.5 1 3/31/2017 10:07:33 AM Arsenic ND mg/Kg 0.099 mg/Kg 3/31/2017 10:07:33 AM Barium 35 1 Cadmium ND 0.099 mg/Kg 1 3/31/2017 10:07:33 AM 0.30 1 3/31/2017 10:07:33 AM Chromium 4.6 mg/Kg 0.30 Copper 2.5 mg/Kg 1 3/31/2017 10:07:33 AM 4600 250 mg/Kg 100 3/31/2017 10:40:11 AM Iron 2.4 0.25 mg/Kg 1 3/31/2017 10:07:33 AM Lead 0.099 mg/Kg 3/31/2017 10:07:33 AM Manganese 68 1 Selenium ND 2.5 mg/Kg 1 3/31/2017 10:07:33 AM 0.25 mg/Kg 3/31/2017 10:07:33 AM Silver ND 1 ND 5.0 mg/Kg 1 3/31/2017 10:07:33 AM Uranium 2.5 mg/Kg 1 3/31/2017 10:07:33 AM Zinc 11

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 16 of 25
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm		C	Client Sample	D: Cell-2-	М
Project: DD Landfarm			Collection D	ate: 3/26/20	017 1:15:00 PM
Lab ID: 1703D74-017	Matrix:	SOIL	Received D	ate: 3/28/20	017 9:45:00 AM
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: ELS
Mercury	ND	0.033	mg/Kg	1	4/3/2017 11:19:01 AM
EPA METHOD 6010B: SOIL METALS	5				Analyst: MED
Arsenic	ND	2.5	mg/Kg	1	3/31/2017 10:08:59 AM
Barium	15	0.099	mg/Kg	1	3/31/2017 10:08:59 AM
Cadmium	ND	0.099	mg/Kg	1	3/31/2017 10:08:59 AM
Chromium	2.7	0.30	mg/Kg	1	3/31/2017 10:08:59 AM
Copper	1.0	0.30	mg/Kg	1	3/31/2017 10:08:59 AM
iron	2700	250	mg/Kg	100	3/31/2017 10:41:46 AM
Lead	1.4	0.25	mg/Kg	1	3/31/2017 10:08:59 AM
Manganese	28	0.099	mg/Kg	1	3/31/2017 10:08:59 AM
Selenium	ND	2.5	mg/Kg	1	3/31/2017 10:08:59 AM
Silver	ND	0.25	mg/Kg	1	3/31/2017 10:08:59 AM
Uranium	ND	4.9	mg/Kg	1	3/31/2017 10:08:59 AM
Zinc	5.5	2.5	mg/Kg	1	3/31/2017 10:08:59 AM

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
- Analyte detected below quantitation limits Page 17 of 25 J
- P Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1703D74 Date Reported: 4/6/2017

CLIENT: DD Landfarm		(Client Sample	e ID: Cell-3-	М
Project: DD Landfarm			Collection D	ate: 3/26/20	017 1:35:00 PM
Lab ID: 1703D74-018	Matrix:	SOIL	Received D	ate: 3/28/20	017 9:45:00 AM
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: ELS
Mercury	ND	0.033	mg/Kg	1	4/3/2017 11:20:47 AM
EPA METHOD 6010B: SOIL METALS					Analyst: MED
Arsenic	ND	2.5	mg/Kg	1	3/31/2017 10:18:41 AM
Barium	25	0.10	mg/Kg	1	3/31/2017 10:18:41 AM
Cadmium	ND	0.10	mg/Kg ່	1	3/31/2017 10:18:41 AM
Chromium	3.5	0.30	mg/Kg	1	3/31/2017 10:18:41 AM
Copper	1.5	0.30	mg/Kg	1	4/4/2017 8:49:12 AM
Iron	3600	250	mg/Kg	100	3/31/2017 10:43:34 AM
Lead	1.8	0.25	mg/Kg	1	3/31/2017 10:18:41 AM
Manganese	48	0.10	mg/Kg	1	3/31/2017 10:18:41 AM
Selenium	ND	2.5	mg/Kg	1	3/31/2017 10:18:41 AM
Silver	ND	0.25	mg/Kg	1	3/31/2017 10:18:41 AM
Uranium	ND	5.0	mg/Kg	1	3/31/2017 10:18:41 AM
Zinc	7.7	2.5	mg/Kg	1	3/31/2017 10:18:41 AM

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 D Н 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
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 18 of 25 J
- Sample pH Not In Range P
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc.	

WO#: 1703D74

06-Apr-17

Client: Project:	DD Land DD Land			,							
					<u></u>		<u> </u>				
	MB-31010	SampT						300.0: Anion	8		
Client ID:	PBS	Batch	ID: 31	010	F	RunNo: 4	1802				
Prep Date:	3/31/2017	Analysis D	ate: 3	/31/2017	5	SeqNo: 1	313317	Units: mg/H	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-31010	SampT	ype: Ici	B	Tes	tCode: El	PA Method	300.0: Anion	8		
Client ID:	LCSS	Batch	iD: 31	010	F	RunNo: 4	1802				
Prep Date:	3/31/2017	Analysis D	ate: 3/	/31/2017	5	SeqNo: 1	313318	Units: mg/M	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.7	90	110			
0	4700074 004 004	Come		-				202.0.4			
	1703D74-001AMS	SampT) iD: 31	,		RunNo: 4		300.0: Anion	5		
Client ID:								1 lutter	-		
Prep Date:	3/31/2017	Analysis D				SeqNo: 1		Units: mg/M	-		
Analyte		Result	PQL 1.5		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	C.1	15.00	1.254	94.3	70.8	119			
Sample ID	1703D74-001AMS	D SampTy	ype: m	вd	Tes	tCode: El	PA Method	300.0: Anion	8		
Client ID:	Cell 1-T	Batch	ID: 31	010	F	RunNo: 4	1802				
Prep Date:	3/31/2017	Analysis D	ate: 3/	31/2017	5	SeqNo: 1	313342	Units: mg/M	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	1.254	94.8	70.8	119	0.424	20	
Sample ID	MB-31040	SampTy	ype: ml	bik	Tes	tCode: El	PA Method	300.0: Anion	8		
Client ID:	PBS	Batch	ID: 31	040	F	RunNo: 4	1837				
Prep Date:	4/3/2017	Analysis D	ate: 4/	3/2017	S	eqNo: 1	314506	Units: mg/K	a		
Analyte		Result	PQL	SPK value	SPK Ref Val	N DEC	Low imit	HighLimit	- %RPD	RPDLimit	Qual
Chloride		ND	1.5			MILLO		raynunat			
Cometa (C	1.05.04045				.						
	LCS-31040	SampTy	•					300.0: Anion	8		
Client ID: Pmp Date:	LCSS		ID: 31		-	tunNo: 4		l Inite	·		
	4/3/2017	Analysis Da	ale. 4/	JIZU'H	2	eqNo: 13	514507	Units: mg/K	9		
Flep Date.		Result	PQL		SPK Ref Val	%REC	LowLimit		%RPD	RPDLimit	

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

JAnalyte detected below quantitation limitsPSample pH Not In Range

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

 Client:
 DD Landfarm

 Project:
 DD Landfarm

 Sample ID
 1703D74-006AMS
 SampType: ms

 Client ID:
 Cell 1-3V
 Batch ID:
 31040

 Prep Date:
 4/3/2017
 Analysis Date:
 4/3/2017

. .

 AMS
 SampType: ms
 TestCode: EPA Method 300.0: Anions

 Batch ID: 31040
 RunNo: 41837

 Analysis Date: 4/3/2017
 SeqNo: 1314512
 Units: mg/Kg

Analyte	Result	POL	SPK value	SPK Ket val	%REC	LowLimit	HignLimπ	%RPD	RPDLIMπ	Qual
Chloride	15	1.5	15.00	0.6408	93.0	70.8	119			
Sample ID 1703D74-006AMS	D SampT	ype: ma	sd	Tes	tCode: El	PA Method	300.0: Anion	8		
Client ID: Cell 1-3V	Batch	n ID: 31	040	F	RunNo: 4	1837				
Prep Date: 4/3/2017	Analysis D	ate: 4/	3/2017	8	SeqNo: 1	314513	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0.6408	92.9	70.8	119	0.116	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

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WO#: 1703D74

06-Apr-17

DD Landfarm

Client:

Project: DD La	andfarm		
Sample ID MB-30952	SampType: MBLK TestCode: EPA Method 418.1: TPH		
Client ID: PBS	Batch ID: 30952 RunNo: 41846		
Prep Date: 3/29/2017	Analysis Date: 4/3/2017 SeqNo: 1313745 Units: mg/Kg		
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RP	D RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND 20		
Sample ID LCS-30952	SampType: LCS TestCode: EPA Method 418.1: TPH	<u> </u>	
Client ID: LCSS	Batch ID: 30952 RunNo: 41846		
Prep Date: 3/29/2017	Analysis Date: 4/3/2017 SeqNo: 1313746 Units: mg/Kg		
Analyte	Resutt PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RP	D RPDLimit	Qual
Petroleum Hydrocarbons, TR	110 20 100.0 0 107 61.7 138	· · ·	
Sample ID LCSD-30952	SampType: LCSD TestCode: EPA Method 418.1: TPH		
Client ID: LCSS02	Batch ID: 30952 RunNo: 41846		
Prep Date: 3/29/2017	Analysis Date: 4/3/2017 SeqNo: 1313747 Units: mg/Kg		
Analyte	Result PQL SPK value SPK Ref Vai %REC LowLimit HighLimit %RP	D RPDLimit	Qual
Petroleum Hydrocarbons, TR	110 20 100.0 0 108 61.7 138 1.1	9 20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- в Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

Ε Value above quantitation range

Sample pH Not In Range

Reporting Detection Limit

Р

RL

W

J Analyte detected below quantitation limits

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06-Apr-17

WO#: 1703D74

Client: Project:

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DD Landfarm DD Landfarm

Sample ID mb-30945	Samp	Type: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: 30	945	- F	tunNo: 4	1730				
Prep Date: 3/28/2017	Analysis [Date: 3/	29/2017	S	SeqNo: 1310415			ģ		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.2	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			
Sample ID Ics-30945	Samp	Type: LC	s	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batc	h ID: 30	945	R	lunNo: 4	1730				
Prep Date: 3/28/2017	Analysis ()ate: 3/	29/2017	S	ieqNo: 1	310416	Units: mg/H	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	120	70	130			
Foluene	0.99	0.050	1.000	0	98.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.57		0.5000		113	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			

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

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- P Sample pH Not In Range RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1703D74

06-Apr-17

WO#: 1703D74

06-Apr-17

	andfarm andfarm		•							
Sample ID MB-31028	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	7471: Mercu	гу		
Client ID: PBS	Batch	n ID: 31	028	F	RunNo: 4	1839				
Prep Date: 4/3/2017	Analysis [)ate: 4/	3/2017	5	SeqNo: 1	313544	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	· <u> </u>							
Sample ID LCS-31028	SampT	ype: LC	s	Tes	tCode: El	PA Method	7471: Mercu	ry		
Client ID: LCSS	Batch	n ID: 31	028	F	RunNo: 4	1839				
Prep Date: 4/3/2017	Analysis [)ate: 4/	3/2017	5	SeqNo: 1	313545	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vercury	0.17	0.033	0.1667	0	101	80	120			

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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmenta	l Ana	lysis La	boratory,	inc.
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Client: Project: DD Landfarm DD Landfarm

Sample ID	MB-30992	SampT	ype: MB	SLK .	Tes	Code: El	PA Method	6010B: Soil I	Vietais	. •	
Client ID:	PBS	Batch	ID: 309	92	F	RunNo: 4	1807				
Prep Date:	3/30/2017	Analysis D	ate: 3/3	31/2017	S	eqNo: 1	312434	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	2.5								
Barium		ND	0.10								
Cadmium		ND	0.10								
Chromium		ND	0.30			,					
Copper		ND	0.30								
iron		ND	2.5								
Lead		ND	0.25								
Manganese		ND	0.10								
Selenium		ND	2.5								
Silver		ND	0.25								
Uranium		ND	5.0								
Zinc		ND	2.5								
Sample ID	LCS-30992	SampT	ype: LC	s	Tes	TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch	ID: 30	992	F	RunNo: 41807					
Prep Date:	3/30/2017	Analysis D	ate: 3/3	31/2017	S	SeqNo: 1312435 Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		23	2.5	25.00	0	94.0	80	120			
Barium		25	0.10	25.00	0	99.4	80	120			
Cadmium		24	0.10	25.00	0	97.9	80	120			
Chromium		24	0.30	25.00	0	97.6	80	120			
Copper		25	0.30	25.00	0	101	80	120			
Iron		26	2.5	25.00	0	104	80	120			
Lead		23	0.25	25.00	0	93.9	80	120			
					-						
•		25	0.10	25.00	0	98.4	80	120			
Selenium		23	0.10 2.5	25.00	0	91.4	80	120			
Manganese Selenium Silver		23 4.9	0.10 2.5 0.25	25.00 5.000	0 0	91.4 98.4	80 80	120 120			
Selenium Silver Uranium		23 4.9 25	0.10 2.5 0.25 5.0	25.00 5.000 25.00	0 0 0	91.4 98.4 99.2	80 80 80	120 120 120			
Selenium Silver Uranium		23 4.9 25 23	0.10 2.5 0.25 5.0 2.5	25.00 5.000 25.00 25.00	0 0	91.4 98.4	80 80	120 120			
Selenium Silver Uranium Zinc	1703D74-017AMS	23 4.9 25 23	0.10 2.5 0.25 5.0	25.00 5.000 25.00 25.00	0 0 0	91.4 98.4 99.2 93.3	80 80 80 80	120 120 120	Metals		
Selenium Silver Uranium Zinc	1703D74-017AMS Cell-2-M	23 4.9 25 23 SampT	0.10 2.5 0.25 5.0 2.5	25.00 5.000 25.00 25.00	0 0 0 Tes	91.4 98.4 99.2 93.3 tCode: El	80 80 80 80 PA Method 1807	120 120 120 120 6010B: Soil 1			
Selenium Silver Uranium Zinc Sample ID Client ID:		23 4.9 25 23 SampT	0.10 2.5 0.25 5.0 2.5 ype: MS	25.00 5.000 25.00 25.00	0 0 0 Tes	91.4 98.4 99.2 93.3 tCode: El	80 80 80 80 PA Method 1807	120 120 120 120			
Selenium Silver Uranium Zinc Sample ID Client ID: Prep Date: Analyte	Cell-2-M	23 4.9 25 23 SampT Batch Analysis D Result	0.10 2.5 0.25 5.0 2.5 ype: MS 1D: 30 ate: 3/ PQL	25.00 5.000 25.00 25.00 25.00 35.00 3992 31/2017 SPK value	0 0 0 Tes F SPK Ref Val	91.4 98.4 99.2 93.3 tCode: El RunNo: 4 SeqNo: 1 %REC	80 80 80 PA Method 1807 312439 LowLimit	120 120 120 6010B: Soil I Units: mg/K HighLimit		RPDLimit	Qual
Selenium Silver Uranium Zinc Sample ID Client ID: Prep Date: Analyte Arsenic	Cell-2-M	23 4.9 25 23 SampT Batch Analysis D Result 23	0.10 2.5 0.25 5.0 2.5 Vype: MS 1D: 309 ate: 3/4 PQL 2.5	25.00 5.000 25.00 25.00 25.00 3992 31/2017 SPK value 24.62	0 0 0 Tes 5 SPK Ref Val 0	91.4 98.4 99.2 93.3 tCode: El RunNo: 4 SeqNo: 1: %REC 95.0	80 80 80 80 PA Method 1807 312439 LowLimit 75	120 120 120 6010B: Soil I Units: mg/k HighLimit 125	ģ	RPDLimit	Qual
Selenium Silver Uranium Zinc Sample ID Client ID: Prep Date: Analyte	Cell-2-M	23 4.9 25 23 SampT Batch Analysis D Result	0.10 2.5 0.25 5.0 2.5 ype: MS 1D: 30 ate: 3/ PQL	25.00 5.000 25.00 25.00 25.00 35.00 3992 31/2017 SPK value	0 0 0 Tes F SPK Ref Val	91.4 98.4 99.2 93.3 tCode: El RunNo: 4 SeqNo: 1 %REC	80 80 80 PA Method 1807 312439 LowLimit	120 120 120 6010B: Soil I Units: mg/K HighLimit	ģ	RPDLimit	Qual

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 limitsP Sample pH Not In Range

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RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

WO#: 1703D74

06-Apr-17

Client: Project: DD Landfarm DD Landfarm

Sample ID 1703D74-017AMS	SampT	ype: MS	;	Tes	tCode: El	PA Method	6010B: Soil	Metals	T	·
Client ID: Cell-2-M	Batcl	h ID: 30	992	F	RunNo: 4	1807				
Prep Date: 3/30/2017	Analysis Date: 3/31/2017			S	SeqNo: 1	312439	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	26	0.30	24.62	1.011	99.9	75	125			
Lead	24	0.25	24.62	1.447	90.1	75	125			
Manganese	53	0.098	24.62	28.46	98.6	75	125			
Selenium	21	2.5	24.62	0	85.7	75	125			
Silver	4.6	0.25	4.923	0	93.0	75	125			
Jranium	22	4.9	24.62	0	89.2	75	125			
Zinc	28	2.5	24.62	5.468	91.2	75	125			

Sample ID	1703D74-017AMSI	D Samp1	Type: MS	D	TestCode: EPA Method 6010B: Soil Metals										
Client ID:	Cell-2-M	Batc	h ID: 30	892	F	RunNo: 4									
Prep Date:	3/30/2017	Analysis Date: 3/31/2017			8	SeqNo: 1	312440	Units: mg/M	٥g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Arsenic		.24	2.5	24.67	0	95.5	75	125	0.770	20					
Barium		41	0.099	24.67	14.7 9	105	75	125	0.372	20					
Cadmium		24	0.099	24.67	0	95.4	75	125	0.0943	20					
Chromium		27	0.30	24.67	2.732	97.5	75	125	0.155	20					
Copper		26	0.30	24.67	1.011	100	75	125	0.627	20					
Lead		24	0.25	24.67	1.447	91.5	75	125	1.58	20					
Manganese		53	0.099	24.67	28.46	97.7	75	125	0.327	20					
Selenium		22	2.5	24.67	0	90.4	75	125	5.56	20					
Silver		4.6	0.25	4.933	0	94.2	75	125	1.48	20					
Uranium		23	4.9	24.67	0	94.8	75	125	6.29	20					
Zinc		28	2.5	24.67	5.468	90.5	75	125	0.494	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 limitsP Sample pH Not In Range

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1703D74

06-Apr-17

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-	onmental Analysis Laborator 4901 Hawkins N Albuquerque, NM 8710 345-3975 FAX: 505-345-410 : www.hallenvironmental.com	sam j	Sample Log-In Check List										
Client Name: DD LANDFARM Work Order	Number: 1703D74		RcptNo: 1										
Received by/date: CM 03/28/1-	7												
Logged By: Ashtey Gallegos 3/28/2017 9:4	5:00 AM	A											
Completed By: Ashley Galjegos 3/28/2017 12:	25:35 PM	A											
Reviewed By: ADD ENM 03	hali-	. 0											
Chain of Custody													
1. Custody seals intact on sample bottles?	Yea	No	Not Present 🗸										
2. Is Chain of Custody complete?	Yes 🗸	No	Not Present										
3. How was the sample delivered?	Courier												
	•												
Log In			1 1										
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 samplas (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 🖌	di affarata a a d										
			# of preserved bottles checked										
12. Does paparwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	Noii	for pH: (<2 or >)	12 unless note									
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]	nai tamin in sin tamin	:										
By Whom:	•	one 'Fax	in Person										
Regarding:			n af fan fin de weitigen genere genere										
Client Instructions:	n men sanih na Mali na Katalan di kungki salih pakan paka dén.		The PEAN PROPERTY AND										
17. Additional remarks:													
18. Cooler Information Cooler No Temp °C Condition Seal Intact Sea	1 No Seal Date S	Signed By											
1 5.6 Good Yes													

			to be Descend	Turn-Around	Time:		1_	_											20	4	2
Client: DD / Client:			Standard Rush				HALL ENVIRONMENTAL ANALYSIS LABORATORY														
Client: DD Landfarm																					
							www.hallenvironmental.com														
Mailing	Address	Box	36	and the second se	antfarm		4901 Hawkins NE - Albuquerque, NM 87109														
Monument NM 98215			Project #:		2'0 0	Tel. 505-345-3975 Fax 505-345-4107															
Phone =	#: 579	· 392		PDLa	Harm	B. Annual	Analysis Request														
email or Fax#: Searcy of @ leaco inet			of @ leaca met	Project Mana	ger:		=	(Aluc	R0					(*)	0						
	Package:			5.0	vegoo		TMB's (8021)	SB	W/W			SIMS)		04.5	CB						
Stan	and the second se		Level 4 (Full Validation)		-		B's	D) H	DRO			SIL		D2,P	82 F						
Accreditation			Sampler: £, See				TPI	5	8.1)	504.1)	8270		3'NC	/ 80		2	1			Î	
	(Type)	Li van		On Ice: Sample Tem	The second se	I NO	+ Щ	E +	GR	d 41	d 50	or	als	N.	des	(10	2			ž
						a second and a second sec	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	3081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)	Chlarid			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	+×	+ X	80	I (Me	S (M	ts (3A 8	SUS (1 Pe	0B (0 (S	5 le			Bubt
				Type and #	Type	1703074	BTE	BTE	H	TPH	EDE	PAH	RCF	Anic	308	826	827	3			Air
3/26	6:30	Soil	GUI-T	1-402	ice	-001				1								1			
ы	6:50	N	Cel 2- T	4	11	-002				J								J			
61	7:15	U	Cell 3 - T	U	19	-003				1								V			
		·																			
32	8:00	Soil	CORI-IV	1-403		-004	J			J					-			1			
	8:25	v	G00 1-2V	U		-005	1			1								1			
4.	8.55	LĮ –	Cel 1-3V	ĸ		-006	V			2								1			
n	9:15	v*	C.00 1-4V	1		-007	J			V			_					~		\downarrow	
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Date:	Time:	Relinquish	and hur the	Received by;		Date Time	Par	nark													
3/21		$\left(\right)$		the	1-	11												-1			
Date:	Time:	Relinquish	ed by	Received by:	N	3/27/17 0830 Date Time	1	5	ieo	ui	0	4 (0	10	a	0	. 1	et	1		
Mala		N	hay)	Vill	-/	SDAS MIS				1			-								
13111	1900	HA		Nha	/ (3/78/17 0945	1		-							-		-		_	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

1

Client: Mailing Monet	Address	Box HNW -392	N 81265	Turn-Around Time: X Standard Rush Project Name: DD Land Form Project #: DD - Bi Annual Project Manager:					HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NIM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
email or Fax#: 5-6 04 6 feace • Net QA/QC Package: Standard D Level 4 (Full Validation)				5.6	gen-		TMB's (8021)	TPH (Gas only)	RO / MF			SIMS)		PO4,SC	2 PCB's				50				
Accreditation NELAP Other			Sampler: Z Stor On Ice: DX Yes D No Sample Temperature: 5 (200				+	(GRO / DRO / MRO)	1418.1)	1504.1)	or 8270	als	NO3,NO2	des / 8082		(VOA)		Metal		Y or N)			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	Charil	warc		Air Bubbles (Y or N)		
3/24	9:40	501	G112-1V	1-402	Tree	-008	J			1								5					
1.	10:10	11	Geo 2 - 2V	ď	U	-009	J			r								1					
41	10:38	11	ale 2- 3V	4	ч	-01D	J			5								J					
"	0:5		Cella-4V	4	u	-011	1			1	_							7	_	+	+		
3126	1:20	-	Coll 3- 1V	9	LI	-012	J			J								7					
U	11:40	11	Cell 3 - 2V	21	11	-013	J			1								1	\rightarrow	_			
4	12:10	4	Call J. 3V	()	11	-014	1			1								J					
5	12:5	17	Cel 3 - 4.V	4	V	-015	J			Y							_	1					
376	00:1	Soil	Gel - 1 - M	17	17	-016													V				
4	1:15	11	Cell 2 - M	12)(-017													\checkmark				
ч	1:35	•1	all 3-M	0	17	-018													\checkmark				
Date: 321 Date: 72111	Time: 8:30 Time: 190	Relinquish	www.	Received by: Received by: Received by:	h	Date Time 3/27/17 0830 Date Time 0945 03/28/17	500 will lance all																

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratorics. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.