

**NM1 - \_45\_**

**MONITORING  
REPORT**

**YEAR(S):**

**\_2015-2017\_**

JAY DAN LANDFARM, LLC  
NM1-045  
P.O. BOX 632  
LOVINGTON, NM 88260

6/9/2017

NMOCD Environmental  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: Jay Dan Landfarm - Bi-Annual Samples

Please find enclosed laboratory results for Bi-Annual sampling . A satellite photo of the area has been included and the sample areas have been identified by orange marks on the photo

If you have any questions feel free to contact me.

Thanks,



Danny Watson, Owner/Operator  
Box 632  
Lovington, NM 88260  
575-631-3482

RECEIVED  
2017 JUN 16 PM 2:54



Google earth

feet  
meters





*Hall Environmental Analysis Laboratory*  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 25, 2017

Danny Watson  
Jay Dan Landfarm  
PO Box 632  
Lovington, NM 88260  
TEL: (575) 631-8909  
FAX

RE: Jay Dan Landfarm

OrderNo.: 1705900

Dear Danny Watson:

Hall Environmental Analysis Laboratory received 18 sample(s) on 5/17/2017 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 [www.hallenvironmental.com](http://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 qualifiers 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

CLIENT: Jay Dan Landfarm

Client Sample ID: JD-Cell 1T

Project: Jay Dan Landfarm

Collection Date: 5/15/2017 7:05:00 AM

Lab ID: 1705900-001

Matrix: SOIL

Received Date: 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	190	30		mg/Kg	20	5/22/2017 1:42:14 PM	31886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	110	9.9		mg/Kg	1	5/22/2017 6:47:37 PM	31814
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	5/22/2017 6:47:37 PM	31814
Surr: DNOP	101	70-130		%Rec	1	5/22/2017 6:47:37 PM	31814
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/18/2017 8:27:08 PM	31802
Surr: BFB	92.5	54-150		%Rec	1	5/18/2017 8:27:08 PM	31802

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

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

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1705900

Date Reported: 5/25/2017

CLIENT: Jay Dan Landfarm

Client Sample ID: JD-Cell 3T

Project: Jay Dan Landfarm

Collection Date: 5/15/2017 7:20:00 AM

Lab ID: 1705900-002

Matrix: SOIL

Received Date: 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	90	30		mg/Kg	20	5/22/2017 1:54:39 PM	31886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	140	9.4		mg/Kg	1	5/22/2017 8:59:24 PM	31814
Motor Oil Range Organics (MRO)	410	47		mg/Kg	1	5/22/2017 8:59:24 PM	31814
Surr: DNOP	108	70-130		%Rec	1	5/22/2017 8:59:24 PM	31814
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/18/2017 8:51:16 PM	31802
Surr: BFB	94.0	54-150		%Rec	1	5/18/2017 8:51:16 PM	31802

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**Lab Order **1705900**Date Reported: **5/25/2017****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 1-1V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 7:30:00 AM**Lab ID:** 1705900-003**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 2:07:04 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	5/18/2017 9:15:24 PM	31802
Benzene	ND	0.024		mg/Kg	1	5/18/2017 9:15:24 PM	31802
Toluene	ND	0.047		mg/Kg	1	5/18/2017 9:15:24 PM	31802
Ethylbenzene	ND	0.047		mg/Kg	1	5/18/2017 9:15:24 PM	31802
Xylenes, Total	ND	0.094		mg/Kg	1	5/18/2017 9:15:24 PM	31802
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	5/18/2017 9:15:24 PM	31802

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

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



**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 1-2V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 7:50:00 AM**Lab ID:** 1705900-004**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 2:19:28 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	5/18/2017 9:39:36 PM	31802
Benzene	ND	0.024		mg/Kg	1	5/18/2017 9:39:36 PM	31802
Toluene	ND	0.047		mg/Kg	1	5/18/2017 9:39:36 PM	31802
Ethylbenzene	ND	0.047		mg/Kg	1	5/18/2017 9:39:36 PM	31802
Xylenes, Total	ND	0.094		mg/Kg	1	5/18/2017 9:39:36 PM	31802
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	5/18/2017 9:39:36 PM	31802

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

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



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 1-3V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 8:15:00 AM**Lab ID:** 1705900-005**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 2:31:53 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	5/18/2017 10:03:42 PM	31802
Benzene	ND	0.024		mg/Kg	1	5/18/2017 10:03:42 PM	31802
Toluene	ND	0.049		mg/Kg	1	5/18/2017 10:03:42 PM	31802
Ethylbenzene	ND	0.049		mg/Kg	1	5/18/2017 10:03:42 PM	31802
Xylenes, Total	ND	0.098		mg/Kg	1	5/18/2017 10:03:42 PM	31802
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	1	5/18/2017 10:03:42 PM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 1-4V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 8:35:00 AM**Lab ID:** 1705900-006**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 3:09:07 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	5/18/2017 10:27:48 PM	31802
Benzene	ND	0.025		mg/Kg	1	5/18/2017 10:27:48 PM	31802
Toluene	ND	0.050		mg/Kg	1	5/18/2017 10:27:48 PM	31802
Ethylbenzene	ND	0.050		mg/Kg	1	5/18/2017 10:27:48 PM	31802
Xylenes, Total	ND	0.10		mg/Kg	1	5/18/2017 10:27:48 PM	31802
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	5/18/2017 10:27:48 PM	31802

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

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

## Analytical Report

Lab Order 1705900

Date Reported: 5/25/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Jay Dan Landfarm

Client Sample ID: JD-Cell 2-1V

Project: Jay Dan Landfarm

Collection Date: 5/15/2017 9:15:00 AM

Lab ID: 1705900-007

Matrix: SOIL

Received Date: 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 3:21:32 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	5/18/2017 10:51:51 PM	31802
Benzene	ND	0.023		mg/Kg	1	5/18/2017 10:51:51 PM	31802
Toluene	ND	0.047		mg/Kg	1	5/18/2017 10:51:51 PM	31802
Ethylbenzene	ND	0.047		mg/Kg	1	5/18/2017 10:51:51 PM	31802
Xylenes, Total	ND	0.093		mg/Kg	1	5/18/2017 10:51:51 PM	31802
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	1	5/18/2017 10:51:51 PM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Jay Dan Landfarm

**Client Sample ID:** JD-Cell 2-2V

**Project:** Jay Dan Landfarm

**Collection Date:** 5/15/2017 9:40:00 AM

**Lab ID:** 1705900-008

**Matrix:** SOIL

**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 3:33:56 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	5/19/2017 12:27:47 AM	31802
Benzene	ND	0.025		mg/Kg	1	5/19/2017 12:27:47 AM	31802
Toluene	ND	0.050		mg/Kg	1	5/19/2017 12:27:47 AM	31802
Ethylbenzene	ND	0.050		mg/Kg	1	5/19/2017 12:27:47 AM	31802
Xylenes, Total	ND	0.099		mg/Kg	1	5/19/2017 12:27:47 AM	31802
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	5/19/2017 12:27:47 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 2-3V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 10:00:00 AM**Lab ID:** 1705900-009**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 3:46:21 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	5/19/2017 12:51:49 AM	31802
Benzene	ND	0.025		mg/Kg	1	5/19/2017 12:51:49 AM	31802
Toluene	ND	0.049		mg/Kg	1	5/19/2017 12:51:49 AM	31802
Ethylbenzene	ND	0.049		mg/Kg	1	5/19/2017 12:51:49 AM	31802
Xylenes, Total	ND	0.099		mg/Kg	1	5/19/2017 12:51:49 AM	31802
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	5/19/2017 12:51:49 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 2-4V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 10:25:00 AM**Lab ID:** 1705900-010**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/22/2017 3:58:45 PM	31886
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	5/19/2017 1:15:51 AM	31802
Benzene	ND	0.024		mg/Kg	1	5/19/2017 1:15:51 AM	31802
Toluene	ND	0.047		mg/Kg	1	5/19/2017 1:15:51 AM	31802
Ethylbenzene	ND	0.047		mg/Kg	1	5/19/2017 1:15:51 AM	31802
Xylenes, Total	ND	0.095		mg/Kg	1	5/19/2017 1:15:51 AM	31802
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	5/19/2017 1:15:51 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 3-1V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 11:00:00 AM**Lab ID:** 1705900-011**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 11:42:18 AM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	5/19/2017 1:39:54 AM	31802
Benzene	ND	0.024		mg/Kg	1	5/19/2017 1:39:54 AM	31802
Toluene	ND	0.049		mg/Kg	1	5/19/2017 1:39:54 AM	31802
Ethylbenzene	ND	0.049		mg/Kg	1	5/19/2017 1:39:54 AM	31802
Xylenes, Total	ND	0.097		mg/Kg	1	5/19/2017 1:39:54 AM	31802
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/19/2017 1:39:54 AM	31802

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

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



**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 3-2V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 11:35:00 AM**Lab ID:** 1705900-012**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>MAB</b>	
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LGT</b>	
Chloride	ND	30		mg/Kg	20	5/23/2017 12:44:21 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>	
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	5/19/2017 2:04:03 AM	31802
Benzene	ND	0.024		mg/Kg	1	5/19/2017 2:04:03 AM	31802
Toluene	ND	0.048		mg/Kg	1	5/19/2017 2:04:03 AM	31802
Ethylbenzene	ND	0.048		mg/Kg	1	5/19/2017 2:04:03 AM	31802
Xylenes, Total	ND	0.096		mg/Kg	1	5/19/2017 2:04:03 AM	31802
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/19/2017 2:04:03 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 3-3V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 12:00:00 PM**Lab ID:** 1705900-013**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 12:56:46 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	5/19/2017 2:28:05 AM	31802
Benzene	ND	0.024		mg/Kg	1	5/19/2017 2:28:05 AM	31802
Toluene	ND	0.048		mg/Kg	1	5/19/2017 2:28:05 AM	31802
Ethylbenzene	ND	0.048		mg/Kg	1	5/19/2017 2:28:05 AM	31802
Xylenes, Total	ND	0.096		mg/Kg	1	5/19/2017 2:28:05 AM	31802
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/19/2017 2:28:05 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 3-4V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 12:30:00 PM**Lab ID:** 1705900-014**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 1:09:10 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	5/19/2017 2:52:07 AM	31802
Benzene	ND	0.024		mg/Kg	1	5/19/2017 2:52:07 AM	31802
Toluene	ND	0.048		mg/Kg	1	5/19/2017 2:52:07 AM	31802
Ethylbenzene	ND	0.048		mg/Kg	1	5/19/2017 2:52:07 AM	31802
Xylenes, Total	ND	0.097		mg/Kg	1	5/19/2017 2:52:07 AM	31802
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	5/19/2017 2:52:07 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 4-1V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 2:30:00 PM**Lab ID:** 1705900-015**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 1:21:35 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	5/19/2017 3:16:12 AM	31802
Benzene	ND	0.023		mg/Kg	1	5/19/2017 3:16:12 AM	31802
Toluene	ND	0.046		mg/Kg	1	5/19/2017 3:16:12 AM	31802
Ethylbenzene	ND	0.046		mg/Kg	1	5/19/2017 3:16:12 AM	31802
Xylenes, Total	ND	0.092		mg/Kg	1	5/19/2017 3:16:12 AM	31802
Surr: 4-Bromofluorobenzene	113	66.6-132		%Rec	1	5/19/2017 3:16:12 AM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 4-2V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 3:10:00 PM**Lab ID:** 1705900-016**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>MAB</b>	
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LGT</b>	
Chloride	ND	30		mg/Kg	20	5/23/2017 1:34:00 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>	
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	5/18/2017 7:14:03 PM	31802
Benzene	ND	0.024		mg/Kg	1	5/18/2017 7:14:03 PM	31802
Toluene	ND	0.048		mg/Kg	1	5/18/2017 7:14:03 PM	31802
Ethylbenzene	ND	0.048		mg/Kg	1	5/18/2017 7:14:03 PM	31802
Xylenes, Total	ND	0.096		mg/Kg	1	5/18/2017 7:14:03 PM	31802
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/18/2017 7:14:03 PM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 4-3V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 3:40:00 PM**Lab ID:** 1705900-017**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 1:46:24 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	5/18/2017 7:37:35 PM	31802
Benzene	ND	0.023		mg/Kg	1	5/18/2017 7:37:35 PM	31802
Toluene	ND	0.046		mg/Kg	1	5/18/2017 7:37:35 PM	31802
Ethylbenzene	ND	0.046		mg/Kg	1	5/18/2017 7:37:35 PM	31802
Xylenes, Total	ND	0.093		mg/Kg	1	5/18/2017 7:37:35 PM	31802
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	5/18/2017 7:37:35 PM	31802

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

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

**Analytical Report**

Lab Order 1705900

Date Reported: 5/25/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** JD-Cell 4-4V**Project:** Jay Dan Landfarm**Collection Date:** 5/15/2017 4:15:00 PM**Lab ID:** 1705900-018**Matrix:** SOIL**Received Date:** 5/17/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	5/23/2017	31861
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	5/23/2017 1:58:48 PM	31903
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	5/18/2017 8:01:06 PM	31802
Benzene	ND	0.025		mg/Kg	1	5/18/2017 8:01:06 PM	31802
Toluene	ND	0.049		mg/Kg	1	5/18/2017 8:01:06 PM	31802
Ethylbenzene	ND	0.049		mg/Kg	1	5/18/2017 8:01:06 PM	31802
Xylenes, Total	ND	0.099		mg/Kg	1	5/18/2017 8:01:06 PM	31802
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/18/2017 8:01:06 PM	31802

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

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	MB-31886	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31886	RunNo:	42957					
Prep Date:	5/22/2017	Analysis Date:	5/22/2017	SeqNo:	1352553	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31886	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31886	RunNo:	42957					
Prep Date:	5/22/2017	Analysis Date:	5/22/2017	SeqNo:	1352554	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID	MB-31903	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31903	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353923	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31903	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31903	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353924	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	MB-31861	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	31861	RunNo:	42982					
Prep Date:	5/22/2017	Analysis Date:	5/23/2017	SeqNo:	1352479	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Petroleum Hydrocarbons, TR ND 20

Sample ID	LCS-31861		SampType:	LCS		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS		Batch ID:	31861		RunNo:	42982				
Prep Date:	5/22/2017		Analysis Date:	5/23/2017		SeqNo:	1352480		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Petroleum Hydrocarbons, TR 110 20 100.0 0 109 61.7 138

Sample ID	LCSD-31861	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	31861	RunNo:	42982					
Prep Date:	5/22/2017	Analysis Date:	5/23/2017	SeqNo:	1352481	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Petroleum Hydrocarbons, TR 110 20 100.0 0 109 61.7 138 0 20

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	LCS-31814	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31814	RunNo:	42914					
Prep Date:	5/18/2017	Analysis Date:	5/19/2017	SeqNo:	1351129	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.5	73.2	114			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID	MB-31814	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31814	RunNo:	42914					
Prep Date:	5/18/2017	Analysis Date:	5/19/2017	SeqNo:	1351130	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	9.7		10.00		97.0	70	130			

Sample ID	LCS-31865	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31865	RunNo:	42945					
Prep Date:	5/22/2017	Analysis Date:	5/22/2017	SeqNo:	1351371	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.8	70	130			

Sample ID	MB-31865	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31865	RunNo:	42945					
Prep Date:	5/22/2017	Analysis Date:	5/22/2017	SeqNo:	1351372	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.8	70	130			

Sample ID	1705900-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	JD-Cell 1T	Batch ID:	31814	RunNo:	42945					
Prep Date:	5/18/2017	Analysis Date:	5/22/2017	SeqNo:	1352333	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.5	47.66	111.1	56.9	55.8	122			
Surr: DNOP	4.7		4.766		99.0	70	130			

Sample ID	1705900-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	JD-Cell 1T	Batch ID:	31814	RunNo:	42945					
Prep Date:	5/18/2017	Analysis Date:	5/22/2017	SeqNo:	1352334	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	87	9.7	48.59	111.1	-50.1	55.8	122	45.8	20	RS

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	1705900-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	JD-Cell 1T	Batch ID:	31814	RunNo:	42945					
Prep Date:	5/18/2017	Analysis Date:	5/22/2017	SeqNo:	1352334	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: DNOP	3.2		4.859		66.7	70	130	0	0	S

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	MB-31802	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	31802	RunNo:	42889					
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349823	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	980		1000		98.2	54	150			

Sample ID	LCS-31802	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	31802	RunNo:	42889					
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349824	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.1	76.4	125			
Surr: BFB	1100		1000		107	54	150			

Sample ID	1705900-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	JD-Cell 1T	Batch ID:	31802	RunNo:	42889					
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349826	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.78	0	106	61.3	150			
Surr: BFB	1100		991.1		108	54	150			

Sample ID	1705900-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	JD-Cell 1T	Batch ID:	31802	RunNo:	42889					
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349827	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.72	0	103	61.3	150	7.65	20	
Surr: BFB	1000		948.8		107	54	150	0	0	

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	MB-31802	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles
Client ID:	PBS	Batch ID:	31802	RunNo:	42889
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349844
				Units:	mg/Kg

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	1.1		1.000		112	66.6	132			

Sample ID	LCS-31802	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles
Client ID:	LCSS	Batch ID:	31802	RunNo:	42889
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349846
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.90	0.10	1.000	0	90.2	66.5	120			
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	66.6	132			

Sample ID	1705900-003AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles
Client ID:	JD-Cell 1-1V	Batch ID:	31802	RunNo:	42889
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349851
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.86	0.094	0.9407	0	91.0	42.5	143			
Benzene	0.89	0.024	0.9407	0	95.1	61.5	138			
Toluene	0.92	0.047	0.9407	0.007177	97.4	71.4	127			
Ethylbenzene	0.94	0.047	0.9407	0	100	70.9	132			
Xylenes, Total	2.9	0.094	2.822	0	102	76.2	123			
Surr: 4-Bromofluorobenzene	1.1		0.9407		117	66.6	132			

Sample ID	1705900-003AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles
Client ID:	JD-Cell 1-1V	Batch ID:	31802	RunNo:	42889
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349852
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.93	0.098	0.9804	0	94.9	42.5	143	8.33	20	
Benzene	0.95	0.025	0.9804	0	96.6	61.5	138	5.68	20	
Toluene	0.97	0.049	0.9804	0.007177	97.8	71.4	127	4.50	20	
Ethylbenzene	0.98	0.049	0.9804	0	100	70.9	132	4.15	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705900

25-May-17

Client: Jay Dan Landfarm

Project: Jay Dan Landfarm

Sample ID	1705900-003AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	JD-Cell 1-1V	Batch ID:	31802	RunNo:	42889					
Prep Date:	5/17/2017	Analysis Date:	5/18/2017	SeqNo:	1349852	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.0	0.098	2.941	0	102	76.2	123	4.29	20	
Surr: 4-Bromofluorobenzene	1.2		0.9804		119	66.6	132	0	0	

## Qualifiers:

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





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

## Sample Log-In Check List

Client Name: JAY DAN LANDFARM

Work Order Number: 1705900

RcptNo: 1

Received By: Erin Melendrez

5/17/2017 9:35:00 AM

Completed By: Ashley Gallegos

5/17/2017 1:08:53 PM

Reviewed By:

SRE 05/17/17

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved 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: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes			

JAY DAN LANDFARM, LLC  
NM1-045  
P.O. BOX 632  
LOVINGTON, NM 88260

RECEIVED OCT  
2015 OCT 24 10 28 AM

10/4/2016

NMOCD Environmental  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: Jay Dan Landfarm - Q3 Vadose Samples

Please find enclosed laboratory results for Q3 vadose zone sampling . A satellite photo of the area has been included and the sample areas have been identified by orange marks on the photo

If you have any questions feel free to contact me. I appreciate your time and continued cooperation with us.

Thanks,



Danny Watson, Owner/Operator  
Box 632  
Lovington, NM 88260  
575-631-3482



Google earth

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

CLIENT: Jay Dan Landfarm

Client Sample ID: Cell 1-T

Project: Jay Dan Landfarm

Collection Date: 9/6/2016 6:15:00 AM

Lab ID: 1609497-001

Matrix: SOIL

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	52	30		mg/Kg	20	9/13/2016 6:02:03 PM	27462
<b>EPA METHOD 8015MD: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	60	9.7		mg/Kg	1	9/14/2016 9:34:13 AM	27445
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	9/14/2016 9:34:13 AM	27445
Surr: DNOP	98.5	70-130		%Rec	1	9/14/2016 9:34:13 AM	27445
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/14/2016 12:44:15 PM	27468
Surr: BFB	77.7	68.3-144		%Rec	1	9/14/2016 12:44:15 PM	27468

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

CLIENT: Jay Dan Landfarm

Client Sample ID: Cell 3-T

Project: Jay Dan Landfarm

Collection Date: 9/6/2016 6:45:00 AM

Lab ID: 1609497-002

Matrix: SOIL

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	64	30		mg/Kg	20	9/13/2016 6:26:52 PM	27462
<b>EPA METHOD 8015MD: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	9/14/2016 10:29:50 AM	27445
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	9/14/2016 10:29:50 AM	27445
Surr: DNOP	101	70-130		%Rec	1	9/14/2016 10:29:50 AM	27445
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/14/2016 1:54:42 PM	27468
Surr: BFB	77.4	68.3-144		%Rec	1	9/14/2016 1:54:42 PM	27468

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

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

**Analytical Report**Lab Order **1609497**Date Reported: **9/23/2016****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 1-1V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 7:10:00 AM**Lab ID:** 1609497-003**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	8.5	1.5		mg/Kg	1	9/13/2016 6:39:17 PM	27462
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	9/14/2016 2:18:15 PM	27468
Benzene	ND	0.023		mg/Kg	1	9/14/2016 2:18:15 PM	27468
Toluene	ND	0.047		mg/Kg	1	9/14/2016 2:18:15 PM	27468
Ethylbenzene	ND	0.047		mg/Kg	1	9/14/2016 2:18:15 PM	27468
Xylenes, Total	ND	0.094		mg/Kg	1	9/14/2016 2:18:15 PM	27468
Surr. 4-Bromofluorobenzene	91.6	80-120		%Rec	1	9/14/2016 2:18:15 PM	27468

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

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

## Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Jay Dan Landfarm

Client Sample ID: Cell 1-2V

Project: Jay Dan Landfarm

Collection Date: 9/6/2016 7:40:00 AM

Lab ID: 1609497-004

Matrix: SOIL

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.5	1.5		mg/Kg	1	9/13/2016 11:49:33 PM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	9/14/2016 3:28:48 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 3:28:48 PM	27468
Toluene	ND	0.047		mg/Kg	1	9/14/2016 3:28:48 PM	27468
Ethylbenzene	ND	0.047		mg/Kg	1	9/14/2016 3:28:48 PM	27468
Xylenes, Total	ND	0.095		mg/Kg	1	9/14/2016 3:28:48 PM	27468
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	9/14/2016 3:28:48 PM	27468

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

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



**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 1-3V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 8:05:00 AM**Lab ID:** 1609497-005**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.2	1.5		mg/Kg	1	9/14/2016 1:04:01 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	9/14/2016 3:52:19 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 3:52:19 PM	27468
Toluene	ND	0.049		mg/Kg	1	9/14/2016 3:52:19 PM	27468
Ethylbenzene	ND	0.049		mg/Kg	1	9/14/2016 3:52:19 PM	27468
Xylenes, Total	ND	0.098		mg/Kg	1	9/14/2016 3:52:19 PM	27468
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	9/14/2016 3:52:19 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 1-4V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 8:30:00 AM**Lab ID:** 1609497-006**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.3	1.5		mg/Kg	1	9/14/2016 1:28:50 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	9/14/2016 4:15:42 PM	27468
Benzene	ND	0.025		mg/Kg	1	9/14/2016 4:15:42 PM	27468
Toluene	ND	0.049		mg/Kg	1	9/14/2016 4:15:42 PM	27468
Ethylbenzene	ND	0.049		mg/Kg	1	9/14/2016 4:15:42 PM	27468
Xylenes, Total	ND	0.099		mg/Kg	1	9/14/2016 4:15:42 PM	27468
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	9/14/2016 4:15:42 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 2-1V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 9:10:00 AM**Lab ID:** 1609497-007**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.5	1.5		mg/Kg	1	9/14/2016 1:53:40 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	9/14/2016 4:39:06 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 4:39:06 PM	27468
Toluene	ND	0.048		mg/Kg	1	9/14/2016 4:39:06 PM	27468
Ethylbenzene	ND	0.048		mg/Kg	1	9/14/2016 4:39:06 PM	27468
Xylenes, Total	ND	0.097		mg/Kg	1	9/14/2016 4:39:06 PM	27468
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	9/14/2016 4:39:06 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 2-2V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 9:35:00 AM**Lab ID:** 1609497-008**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.1	1.5		mg/Kg	1	9/14/2016 2:18:29 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	9/14/2016 5:02:39 PM	27468
Benzene	ND	0.023		mg/Kg	1	9/14/2016 5:02:39 PM	27468
Toluene	ND	0.046		mg/Kg	1	9/14/2016 5:02:39 PM	27468
Ethylbenzene	ND	0.046		mg/Kg	1	9/14/2016 5:02:39 PM	27468
Xylenes, Total	ND	0.093		mg/Kg	1	9/14/2016 5:02:39 PM	27468
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	9/14/2016 5:02:39 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 2 3V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 10:00:00 AM**Lab ID:** 1609497-009**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.6	1.5		mg/Kg	1	9/14/2016 2:43:19 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	9/14/2016 5:26:15 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 5:26:15 PM	27468
Toluene	ND	0.048		mg/Kg	1	9/14/2016 5:26:15 PM	27468
Ethylbenzene	ND	0.048		mg/Kg	1	9/14/2016 5:26:15 PM	27468
Xylenes, Total	ND	0.095		mg/Kg	1	9/14/2016 5:26:15 PM	27468
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	9/14/2016 5:26:15 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Client Sample ID:** Cell 2 4V**Project:** Jay Dan Landfarm**Collection Date:** 9/6/2016 10:20:00 AM**Lab ID:** 1609497-010**Matrix:** SOIL**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	8.5	1.5		mg/Kg	1	9/14/2016 3:32:58 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	9/14/2016 7:46:58 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 7:46:58 PM	27468
Toluene	ND	0.048		mg/Kg	1	9/14/2016 7:46:58 PM	27468
Ethylbenzene	ND	0.048		mg/Kg	1	9/14/2016 7:46:58 PM	27468
Xylenes, Total	ND	0.095		mg/Kg	1	9/14/2016 7:46:58 PM	27468
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	9/14/2016 7:46:58 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Project:** Jay Dan Landfarm**Lab ID:** 1609497-011**Matrix:** SOIL**Client Sample ID:** Cell 3-1V**Collection Date:** 9/6/2016 11:00:00 AM**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: MAB	
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT	
Chloride	8.6	1.5		mg/Kg	1	9/14/2016 3:57:47 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA	
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	9/14/2016 8:10:16 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 8:10:16 PM	27468
Toluene	ND	0.049		mg/Kg	1	9/14/2016 8:10:16 PM	27468
Ethylbenzene	ND	0.049		mg/Kg	1	9/14/2016 8:10:16 PM	27468
Xylenes, Total	ND	0.098		mg/Kg	1	9/14/2016 8:10:16 PM	27468
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	9/14/2016 8:10:16 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Project:** Jay Dan Landfarm**Lab ID:** 1609497-012**Matrix:** SOIL**Client Sample ID:** Cell 3-2V**Collection Date:** 9/6/2016 11:25:00 AM**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: MAB	
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT	
Chloride	2.7	1.5		mg/Kg	1	9/14/2016 4:22:37 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA	
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	9/14/2016 8:33:46 PM	27468
Benzene	ND	0.025		mg/Kg	1	9/14/2016 8:33:46 PM	27468
Toluene	ND	0.050		mg/Kg	1	9/14/2016 8:33:46 PM	27468
Ethylbenzene	ND	0.050		mg/Kg	1	9/14/2016 8:33:46 PM	27468
Xylenes, Total	ND	0.099		mg/Kg	1	9/14/2016 8:33:46 PM	27468
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	9/14/2016 8:33:46 PM	27468

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

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



**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Project:** Jay Dan Landfarm**Lab ID:** 1609497-013**Matrix:** SOIL**Client Sample ID:** Cell 3-3V**Collection Date:** 9/6/2016 11:55:00 AM**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>MAB</b>	
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LGT</b>	
Chloride	3.2	1.5		mg/Kg	1	9/14/2016 4:47:26 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>	
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	9/14/2016 8:57:14 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 8:57:14 PM	27468
Toluene	ND	0.049		mg/Kg	1	9/14/2016 8:57:14 PM	27468
Ethylbenzene	ND	0.049		mg/Kg	1	9/14/2016 8:57:14 PM	27468
Xylenes, Total	ND	0.098		mg/Kg	1	9/14/2016 8:57:14 PM	27468
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	9/14/2016 8:57:14 PM	27468

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

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

**Analytical Report**Lab Order **1609497**Date Reported: **9/23/2016****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Project:** Jay Dan Landfarm**Lab ID:** 1609497-014**Matrix:** SOIL**Client Sample ID:** Cell 3-4V**Collection Date:** 9/6/2016 12:30:00 PM**Received Date:** 9/8/2016 9:30:00 AM

<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 418.1: TPH</b>							Analyst: <b>MAB</b>
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	2.1	1.5		mg/Kg	1	9/14/2016 5:12:15 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	9/14/2016 9:20:45 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 9:20:45 PM	27468
Toluene	ND	0.048		mg/Kg	1	9/14/2016 9:20:45 PM	27468
Ethylbenzene	ND	0.048		mg/Kg	1	9/14/2016 9:20:45 PM	27468
Xylenes, Total	ND	0.097		mg/Kg	1	9/14/2016 9:20:45 PM	27468
Surr: 4-Bromofluorobenzene	87.8	80-120		%Rec	1	9/14/2016 9:20:45 PM	27468

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

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

**Analytical Report**

Lab Order 1609497

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Jay Dan Landfarm**Project:** Jay Dan Landfarm**Lab ID:** 1609497-015**Matrix:** SOIL**Client Sample ID:** Cell 4-1V**Collection Date:** 9/6/2016 1:15:00 PM**Received Date:** 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>MAB</b>	
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LGT</b>	
Chloride	2.3	1.5		mg/Kg	1	9/14/2016 6:01:53 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>	
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	9/14/2016 9:44:19 PM	27468
Benzene	ND	0.023		mg/Kg	1	9/14/2016 9:44:19 PM	27468
Toluene	ND	0.047		mg/Kg	1	9/14/2016 9:44:19 PM	27468
Ethylbenzene	ND	0.047		mg/Kg	1	9/14/2016 9:44:19 PM	27468
Xylenes, Total	ND	0.093		mg/Kg	1	9/14/2016 9:44:19 PM	27468
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	9/14/2016 9:44:19 PM	27468

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

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

# Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Jay Dan Landfarm

Project: Jay Dan Landfarm

Lab ID: 1609497-016

Matrix: SOIL

Client Sample ID: Cell 4-2V

Collection Date: 9/6/2016 1:40:00 PM

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.0	1.5		mg/Kg	1	9/14/2016 11:01:49 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	9/14/2016 10:07:49 PM	27468
Benzene	ND	0.025		mg/Kg	1	9/14/2016 10:07:49 PM	27468
Toluene	ND	0.050		mg/Kg	1	9/14/2016 10:07:49 PM	27468
Ethylbenzene	ND	0.050		mg/Kg	1	9/14/2016 10:07:49 PM	27468
Xylenes, Total	ND	0.099		mg/Kg	1	9/14/2016 10:07:49 PM	27468
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	9/14/2016 10:07:49 PM	27468

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

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

# Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Jay Dan Landfarm

Project: Jay Dan Landfarm

Lab ID: 1609497-017

Matrix: SOIL

Client Sample ID: Cell 4-3V

Collection Date: 9/6/2016 2:20:00 PM

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	8.1	1.5		mg/Kg	1	9/14/2016 11:26:38 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	9/14/2016 10:31:15 PM	27468
Benzene	ND	0.024		mg/Kg	1	9/14/2016 10:31:15 PM	27468
Toluene	ND	0.048		mg/Kg	1	9/14/2016 10:31:15 PM	27468
Ethylbenzene	ND	0.048		mg/Kg	1	9/14/2016 10:31:15 PM	27468
Xylenes, Total	ND	0.095		mg/Kg	1	9/14/2016 10:31:15 PM	27468
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	9/14/2016 10:31:15 PM	27468

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

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

## Analytical Report

Lab Order 1609497

Date Reported: 9/23/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Jay Dan Landfarm

Project: Jay Dan Landfarm

Lab ID: 1609497-018

Matrix: SOIL

Client Sample ID: Cell 4-4V

Collection Date: 9/6/2016 2:45:00 PM

Received Date: 9/8/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/14/2016	27461
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	2.6	1.5		mg/Kg	1	9/14/2016 11:51:28 AM	27482
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	9/14/2016 10:54:40 PM	27468
Benzene	ND	0.023		mg/Kg	1	9/14/2016 10:54:40 PM	27468
Toluene	ND	0.046		mg/Kg	1	9/14/2016 10:54:40 PM	27468
Ethylbenzene	ND	0.046		mg/Kg	1	9/14/2016 10:54:40 PM	27468
Xylenes, Total	ND	0.093		mg/Kg	1	9/14/2016 10:54:40 PM	27468
Surr: 4-Bromofluorobenzene	88.3	80-120		%Rec	1	9/14/2016 10:54:40 PM	27468

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

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

# Chain-of-Custody Record

**Jay Dan**  
**Mary Watson**  
 g Address: **Box 632**  
**Wagon NM 88260**  
 #: **525-631-8909**  
 or Fax#: **bison.consulting16@gmail.com**  
 Package:  
 indard ☐ Level 4 (Full Validation)  
 ditation  
 LAP ☐ Other \_\_\_\_\_  
 D (Type) \_\_\_\_\_

Turn-Around Time:  
☒ Standard ☐ Rush  
 Project Name:  
**Jay Dan Landfarm**  
 Project #:  
**B. Annual Sampling**  
 Project Manager:  
**D. Watson**  
 Sampler: **Kelly Harrison**  
 On Ice: ☒ Yes ☐ No  
 Sample Temperature: **4.8**



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
6:15	Soil	Cell 1 - T	1-403	ice	-001		✓										✓	
6:45	Soil	Cell 3 - T	1-403	ice	-002		✓										✓	
7:10	Soil	Cell 1 - 1V	1-403	ice	-003	✓		✓									✓	
7:40	Soil	1 - 2V	1-403	ice	-004	✓		✓									✓	
8:05	Soil	1 - 3V	1-403	ice	-005	✓		✓									✓	
8:30	Soil	1 - 4V	1-403	ice	-006	✓		✓									✓	
9:10	Soil	Cell 2 - 1V	1-403	ice	-007	✓		✓									✓	
9:35	Soil	2 - 2V	1-403	ice	-008	✓		✓									✓	
10:00	Soil	2 - 3V	1-403	ice	-009	✓		✓									✓	
10:20	Soil	2 - 4V	1-403	ice	-010	✓		✓									✓	

Time: **2:30** Relinquished by: **Kelly Harrison**  
 Time: **1:40** Relinquished by: **[Signature]**  
 Received by: **[Signature]** Date: **9/8/16** Time: **1430**  
 Received by: **[Signature]** Date: **09/08/16** Time: **0930**

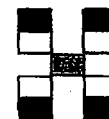
Remarks:  
**Send Results to:**  
**bison.consulting16@gmail.com**

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.

# Chain-of-Custody Record

Jay Dan  
 anna Watson  
 g Address: Box 682  
 NM 88240  
 # 505-631-8909  
 or Fax#: bison.consultingllc@gmail.com  
 Package:  
 andard ☐ Level 4 (Full Validation)  
 ditation  
 LAP ☐ Other  
 ID (Type)

Turn-Around Time:  
☒ Standard ☐ Rush  
 Project Name:  
 Jay Dan Landfarm  
 Project #:  
 B. Annual Sampling  
 Project Manager:  
 D. Watson  
 Sampler: Kelly Harrison  
 On Ice: ☒ Yes ☐ No  
 Sample Temperature: 48



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
11:00	Soil	Cod 3 - 1V	1-403	ice	-011	✓			✓								✓	
11:25	Soil	3 - 2V	1-403	ice	-012	✓			✓								✓	
11:55	Soil	3 - 3V	1-403	ice	-013	✓			✓								✓	
12:30	Soil	3 - 4V	1-403	ice	-014	✓			✓								✓	
1:15	Soil	Cod 4 - 1V	1-403	ice	-015	✓			✓								✓	
1:40	Soil	4 - 2V	1-403	ice	-016	✓			✓								✓	
2:20	Soil	4 - 3V	1-403	ice	-017	✓			✓								✓	
2:45	Soil	4 - 4V	1-403	ice	-018	✓			✓								✓	

Time: 2:30 Relinquished by: Kelly Harrison  
 Received by: [Signature] Date: 9/16/16 Time: 1430  
 Time: 6:19 Relinquished by: [Signature]  
 Received by: [Signature] Date: 09/08/16 Time: 0930

Remarks:  
 Send results to:  
 bison.consultingllc@gmail.com

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.



JAY DAN LANDFARM, LLC

NM1-045

P.O. BOX 632

LOVINGTON, NM 88260

RECEIVED OGD

2016 MAR -7 P. 3: 01

3/2/2015 ~~16~~

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

RE: Jay Dan Landfarm - Q1 Vadose Samples

Mr. Jones:

Please find enclosed laboratory results for Q1 vadose zone sampling . A satellite photo of the area has been included and the sample areas have been identified by orange markers on the photo.

If you have any questions feel free to contact me. I appreciate your time and continued cooperation with us.

Thanks,



Danny Watson, Owner/Operator  
Box 632  
Lovington, NM 88260  
575-631-3482

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 1-1V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 7:15:00 AM**Lab ID:** 1602697-003**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 2:19:20 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	2/19/2016 10:20:50 AM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 10:20:50 AM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 10:20:50 AM	23808
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2016 10:20:50 AM	23808
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/19/2016 10:20:50 AM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 1-2V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 7:40:00 AM**Lab ID:** 1602697-004**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 2:44:09 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/19/2016 11:31:18 AM	23808
Toluene	ND	0.050		mg/Kg	1	2/19/2016 11:31:18 AM	23808
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2016 11:31:18 AM	23808
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2016 11:31:18 AM	23808
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	2/19/2016 11:31:18 AM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 1-3V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 8:00:00 AM**Lab ID:** 1602697-005**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	13	1.5		mg/Kg	1	2/19/2016 3:08:59 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	2/19/2016 12:41:41 PM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 12:41:41 PM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 12:41:41 PM	23808
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2016 12:41:41 PM	23808
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	2/19/2016 12:41:41 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 1-4V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 8:25:00 AM**Lab ID:** 1602697-006**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 3:33:47 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	2/19/2016 1:05:10 PM	23808
Toluene	ND	0.046		mg/Kg	1	2/19/2016 1:05:10 PM	23808
Ethylbenzene	ND	0.046		mg/Kg	1	2/19/2016 1:05:10 PM	23808
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2016 1:05:10 PM	23808
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	2/19/2016 1:05:10 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 2-1V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 9:00:00 AM**Lab ID:** 1602697-007**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 4:23:26 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	2/19/2016 1:28:41 PM	23808
Toluene	ND	0.047		mg/Kg	1	2/19/2016 1:28:41 PM	23808
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2016 1:28:41 PM	23808
Xylenes, Total	ND	0.094		mg/Kg	1	2/19/2016 1:28:41 PM	23808
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/19/2016 1:28:41 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 2-2V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 9:25:00 AM**Lab ID:** 1602697-008**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 4:48:16 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	2/19/2016 1:52:07 PM	23808
Toluene	ND	0.046		mg/Kg	1	2/19/2016 1:52:07 PM	23808
Ethylbenzene	ND	0.046		mg/Kg	1	2/19/2016 1:52:07 PM	23808
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2016 1:52:07 PM	23808
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	2/19/2016 1:52:07 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 2-3V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 9:40:00 AM**Lab ID:** 1602697-009**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	1.6	1.5		mg/Kg	1	2/19/2016 5:13:04 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/19/2016 2:15:44 PM	23808
Toluene	ND	0.050		mg/Kg	1	2/19/2016 2:15:44 PM	23808
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2016 2:15:44 PM	23808
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2016 2:15:44 PM	23808
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/19/2016 2:15:44 PM	23808

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

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



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 2-4V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 10:05:00 AM**Lab ID:** 1602697-010**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 5:37:55 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	2/19/2016 2:39:13 PM	23808
Toluene	ND	0.047		mg/Kg	1	2/19/2016 2:39:13 PM	23808
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2016 2:39:13 PM	23808
Xylenes, Total	ND	0.095		mg/Kg	1	2/19/2016 2:39:13 PM	23808
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	2/19/2016 2:39:13 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 3-1V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 10:25:00 AM**Lab ID:** 1602697-011**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 6:02:45 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	2/19/2016 3:02:40 PM	23808
Toluene	ND	0.048		mg/Kg	1	2/19/2016 3:02:40 PM	23808
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2016 3:02:40 PM	23808
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2016 3:02:40 PM	23808
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/19/2016 3:02:40 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 3-2V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 10:50:00 AM**Lab ID:** 1602697-012**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	13	1.5		mg/Kg	1	2/19/2016 6:52:25 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	2/19/2016 5:00:23 PM	23808
Toluene	ND	0.047		mg/Kg	1	2/19/2016 5:00:23 PM	23808
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2016 5:00:23 PM	23808
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2016 5:00:23 PM	23808
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	2/19/2016 5:00:23 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 3-3V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 11:15:00 AM**Lab ID:** 1602697-013**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 7:17:14 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	2/19/2016 5:23:48 PM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 5:23:48 PM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 5:23:48 PM	23808
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2016 5:23:48 PM	23808
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	2/19/2016 5:23:48 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.**

Analytical Report

Lab Order 1602697

Date Reported: 2/25/2016

CLIENT: Jay Dan Landfarm

Client Sample ID: 3-4V

Project: Jay Dan Landfarm

Collection Date: 2/15/2016 11:40:00 AM

Lab ID: 1602697-014

Matrix: SOIL

Received Date: 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 7:42:04 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	2/19/2016 5:47:18 PM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 5:47:18 PM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 5:47:18 PM	23808
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2016 5:47:18 PM	23808
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	2/19/2016 5:47:18 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 4-1V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 12:10:00 PM**Lab ID:** 1602697-015**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	2/19/2016 8:06:53 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	2/19/2016 6:10:43 PM	23808
Toluene	ND	0.048		mg/Kg	1	2/19/2016 6:10:43 PM	23808
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2016 6:10:43 PM	23808
Xylenes, Total	ND	0.096		mg/Kg	1	2/19/2016 6:10:43 PM	23808
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	2/19/2016 6:10:43 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 4-2V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 12:30:00 PM**Lab ID:** 1602697-016**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>							Analyst: TOM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	15	1.5		mg/Kg	1	2/19/2016 8:31:42 PM	23854
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	2/19/2016 6:34:05 PM	23808
Toluene	ND	0.047		mg/Kg	1	2/19/2016 6:34:05 PM	23808
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2016 6:34:05 PM	23808
Xylenes, Total	ND	0.094		mg/Kg	1	2/19/2016 6:34:05 PM	23808
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	2/19/2016 6:34:05 PM	23808

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 4-3V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 12:55:00 PM**Lab ID:** 1602697-017**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: TOM	
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT	
Chloride	ND	1.5		mg/Kg	1	2/23/2016 11:59:35 AM	23908
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB	
Benzene	ND	0.049		mg/Kg	1	2/19/2016 6:57:27 PM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 6:57:27 PM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 6:57:27 PM	23808
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2016 6:57:27 PM	23808
Sum: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/19/2016 6:57:27 PM	23808

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

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



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1602697

Date Reported: 2/25/2016

**CLIENT:** Jay Dan Landfarm**Client Sample ID:** 4-4V**Project:** Jay Dan Landfarm**Collection Date:** 2/15/2016 1:15:00 PM**Lab ID:** 1602697-018**Matrix:** SOIL**Received Date:** 2/17/2016 9:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 418.1: TPH</b>						Analyst: TOM	
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/22/2016	23830
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT	
Chloride	14	1.5		mg/Kg	1	2/23/2016 12:49:13 PM	23908
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB	
Benzene	ND	0.049		mg/Kg	1	2/19/2016 7:20:46 PM	23808
Toluene	ND	0.049		mg/Kg	1	2/19/2016 7:20:46 PM	23808
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2016 7:20:46 PM	23808
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2016 7:20:46 PM	23808
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/19/2016 7:20:46 PM	23808

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

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



Google earth

feet  
meters

