NM1 - 34____

MONITORING REPORT

YEAR(S):

2011 - 2012___

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

RE: DD Landfarm (Permit #01-0034)

Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four samples from each cell, composited and tested for BTEX, TPH and Chloride.

We will continue to operate and maintain the facility as our permit and rule 36 requires. Cell three was tested for the "five year monitoring", taking four randomly selected samples and testing as 20-6-2-3103 A & B requires.

If you have any questions or need anything further, please call.

Sincerely,

Eddie W. Seay, Agent Eddie Seay Consulting 601 W. Illinois

Hobbs, NM 88242 575-392-2236

seay04@leaco.net

cc: DD Landfarm



August 28, 2012

Eddie Seay Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

08/21/2012

Reported:

08/28/2012

Project Name: Project Number: D D LANDFARM DD LF

Project Location:

D D LAND FARM

Sampling Date:

08/20/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL 1 - 1T (H201971-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 89. 4 -12	6				V-14-0		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	39.5	10.0	08/23/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	78.9	% 65.2-14	0	147/2000					
Surrogate: 1-Chlorooctadecane	93.0	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and clern's exclusive remedy for any cleim arising, whether passed in contract or tort, shall be limited to the amount paid by clern for analyses. All claims, including those for negligence and any other cause whistoners shall be diseased wheeld unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of softs incurred by clern, its substitatives, affiliates or aucreased upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey & Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received: Reported: 08/21/2012

08/28/2012

Project Name: Project Number: D D LANDFARM DD LF

Project Location:

D D LAND FARM

Sampling Date:

08/20/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL 2 - 2T (H201971-02)

BTEX 80218	mg/l	cg .	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	104 %	89.4-120	i						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg/l	cg .	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	< 50.0	50.0	08/24/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	<50.0	50.0	08/24/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	56.7%	6 65.2-140)	12-5-1					
Surrogate: 1-Chlorooctadecane	92.4 %	6 63.6-154	ı						

Cardinal Laboratories *=Accredited Analyte

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

08/21/2012

Reported:

08/28/2012

Project Name: Project Number: D D LANDFARM

Project Location:

DD LF D D LAND FARM Sampling Date:

08/20/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL 3 - 3T (H201971-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	6				VF-/*PI	AII - 1	
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	77.3	% 65.2-14	0				MANN TO MANN TO THE TOTAL TO TH		
Surrogate: 1-Chlorooctadecane	88.4 S	% 63.6-15	4						

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

08/21/2012

Reported:

08/28/2012 D D LANDFARM

Project Name: Project Number:

DD LF

Project Location:

D D LAND FARM

97.3 %

63.6-154

Sampling Date:

08/20/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: CELL 1 - 1V (H201971-04)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	82.6	% 65.2-14	0			,			

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Surrogate: 1-Chlorooctadecane

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Eddie Seay Consulting **Eddie Seay** 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

08/21/2012

08/28/2012

Sampling Date: Sampling Type: 08/20/2012

Reported:

Soil

Project Name:

D D LANDFARM

Sampling Condition:

Cool & Intact

Project Number:

DD LF

Sample Received By:

Jodi Henson

Project Location:

D D LAND FARM

Sample ID: CELL 2 - 2V (H201971-05)

8TEX 8021B	mg/	kg	Anatyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/28/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/28/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/28/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 89. 4 -12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: HM				***************************************	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	88.8	% 65.2-14	0				- LAVINA VERVICE /		A 4740-1111
Surrogate: 1-Chlorooctadecane	96.5	% 63.6-15	4						

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clern's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors arising out of or related to the performance of the services rensurder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keens



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received: Reported: 08/21/2012

08/28/2012

D D LANDFARM

Project Number:

Project Name:

DD LF Project Location: D D LAND FARM Sampling Date:

08/20/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: CELL 3 - 3V (H201971-06)

BTEX 8021B	mg/	kg	Analyze	đ By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2012	ND	1.76	88.2	2.00	6.04	
Toluene*	<0.050	0.050	08/24/2012	ND	1.82	91.2	2.00	5.06	
Ethylbenzene*	<0.050	0.050	08/24/2012	ND	1.86	93.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/24/2012	ND	6.14	102	6.00	2.96	
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 89.4-12	6	1.000					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifiler
Chloride	<16.0	16.0	08/23/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2012	ND	187	93.3	200	0.454	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	182	90.9	200	1.40	
Surrogate: 1-Chlorooctane	78.0	% 65.2-14	0	V.8.4****					
Surrogate: 1-Chlorooctadecane	90.1	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keens



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QM-4X The splike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Keens

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1.0 Latinization 1.0 La

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 395-2326

Page 9 of 9



September 27, 2012

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (01-0034) 5 YR MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 3-1	H201972-01	Soil	20-Aug-12 14:15	21-Aug-12 11:30
CELL 3-2	H201972-02	Soil	20-Aug-12 14:50	21-Aug-12 11:30
CELL 3-3	H201972-03	Soil	20-Aug-12 15:40	21-Aug-12 11:30
CELL 3-4	H201972-04	Soil	20-Aug-12 16:30	21-Aug-12 11:30

Cardinal Laboratories *=Accredited Analyte

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Celey & Keens



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborate	ories					
Total Metals								
Arsenic	0.702	0.500 mg/kg dry wt.	1000	2092613	CK.	17-Sep-12	6020	GAI
Barium	24.2	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Cadmium	0.160	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Chromium	3.03	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Copper	1.50	0,100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Iron	3110	5.0 mg/kg dry wt.	100	2092612	CK	31-Aug-12	6010	GAI
Lead	2.08	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Manganese	49.2	0,500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Mercury	ND	0.098 mg/kg dry wt.	490	2092614	CK	04-Sep-12	7471A	GAI
Selenium	ND	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Silver	ND	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Uranium	0.125	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Zinc	6.42	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAI
Inorganic Compounds								
% Solids	99.2	%	1	2092607	CK	29-Aug-12	D2216	GAI
Chloride	ND	16.0 mg/kg	4	2082307	HM	23-Aug-12	4500-C1-B	
Cyanide (total)	ND	0.250 mg/kg dry wt.	50	2092608	CK	29-Aug-12	335.4	GAI
Fluoride	6.64	0,800 mg/kg dry wt.	4	2092610	CK	27-Aug-12	4500F C	GAI
Nitrate/Nitrite as N	3.90	0.080 mg/kg dry wt.	4	2092611	CK	31-Aug-12	353.2	GAI
Nitrite as N	0.088	0.080 mg/kg dry wt.	4	2092611	C K	30-Aug-12	353.2	GAI
pH•	7.90	0.100 pH Units	1	2082706	HM	24-Aug-12	9045	
Phenols	ND	0.5 mg/kg dry wt.	1	2092619	CK	12-Sep-12	EPA9065	GAI
Sulfate	ND	40.0 mg/kg	4	2082806	AP	29-Aug-12	375.4	

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	il Laborat	ories					
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		89.3 %	65.2	-140	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		105 %	63.6	-154	2082302	MS	24-Aug-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		76.2 %	35-	140	2092621	CK	29-Aug-12	8082	
Radionuclides									
Radium-226	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Volatile Organic Compounds by GCMS									
Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroeth ane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chioroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichleroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by GCMS									
Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		97.7 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		106 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		83.6 %	70-	130	2083011	ms	30-Aug-12	8260	
Semivolatile Organic Compounds by GCMS									
Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Eddie Seay Consulting 601 W. Illinois Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS									
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		38.1 %	16.1-	91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		43.1 %	27.2-	92.9	2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-dl4		46.7 %	21.3-	96.1	2082202	ms	31-Aug-12	8270C	

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Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM
Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 2 H201972-02 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborat	ories					
Total Metals						<u> </u>		
Arsenic	0.862	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Barium	14.5	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Cadmium	0.119	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Chromium	2.59	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Copper	0.905	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Iron	2660	5.0 mg/kg dry wt.	100	2092612	CK	31-Aug-12	6010	GAL
Lead	1.77	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Manganese	25.8	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Mercury	ND	0.095 mg/kg dry wt.	476	2092614	CK	04-Sep-12	7471A	GAL
Selenium	ND	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Silver	ND	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Uranium	ND	0,100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Zinc	3.19	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Inorganic Compounds								
% Solids	99.7	%	1	2092607	CK	29-Aug-12	D2216	GAL
Chloride	ND	16.0 mg/kg	4	2082307	HM	23-Aug-12	4500-Cl-B	
Cyanide (total)	ND	0.250 mg/kg dry wt.	50	2092608	CK	29-Aug-12	335.4	GAL
Fluoride	1.49	0.800 mg/kg dry wt.	4	2092610	CK	27-Aug-12	4500F C	GAL
Nitrate/Nitrite as N	1.00	0.080 mg/kg dry wt.	4	2092611	CK	31-Aug-12	353.2	GAL
Nitrite as N	0.118	0.080 mg/kg dry wt.	4	2092611	CK	30-Aug-12	353.2	GAL
pH*	7.40	0.100 pH Units	1	2082706	НМ	24-Aug-12	9045	
Phenois	ND	0.5 mg/kg dry wt.	1	2092619	CK	12-Sep-12	EPA9065	GAL
Sulfate	ND	40.0 mg/kg	4	2082806	AP	29-Aug-12	375.4	

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Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 2 H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		89.6 %	65.2	140	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		102 %	63.6	154	2082302	MS	24-Aug-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		81.0 %	35-	140	2092621	CK	29-Aug-12	8082	
Radionuclides									
Radium-226	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Volatile Organic Compounds by GCMS									
Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chioroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

601 W. Illinois Hobbs NM, 88242

Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-2 H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal	Laborat	ories					
Volatile Organic Compounds by GCMS									
Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		99.0 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		103 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.3 %	70-	130	2083011	ms	30-Aug-12	8260	
Semivolatile Organic Compounds by GCMS				·					
Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	82 7 0C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 2 H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Labora	tories					
Semivolatile Organic Compounds by GCMS									
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i] perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		31.5 %	16.1	-91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		33.4 %	27.2	-92.9	2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-dl4		43.0 %	21.3	-96.1	2082202	ms	31-Aug-12	8270C	

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Celeg & Keens



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay 27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 3 H201972-03 (Soil)

Analyte	Result	Reporting Limit Unit	s Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Labo	oratories					
Total Metals								
Arsenic	0.525	0.500 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Barium	14.6	0.50 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Cadmium	ND	0.100 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Chromium	2.11	1.00 mg/kg dr	y wt. 1000	2092613	CK	1 7- Sep-12	602 0	GAL
Copper	1.06	0.100 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Iron	2620	5.0 mg/kg dr	y wt. 100	2092612	CK	31-Aug-12	6010	GAL
Lead	2.03	0.50 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Manganese	31.0	0.500 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Mercury	ND	0.095 mg/kg dr	y wt. 476	2092614	CK	04-Sep-12	7471A	GAL
Selenium	ND	1.00 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Silver	ND	0.100 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Uranium	ND	0.100 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Zinc	4.61	1.00 mg/kg dr	y wt. 1000	2092613	CK	17-Sep-12	6020	GAL
Inorganic Compounds								
% Solids	99.0	%	1	2092607	CK	29-Aug-12	D2216	GAL
Chloride	ND	16.0 mg/k	g 4	2082307	HM	23-Aug-12	4500-Cl-B	
Cyanide (total)	ND	0.250 mg/kg dr	y wt. 50	2092608	CK	29-Aug-12	335.4	GAL
Fluoride	2.36	0.800 mg/kg dr	ywt. 4	2092610	CK	27-Aug-12	4500F C	GAL
Nitrate/Nitrite as N	3.25	0.080 mg/kg dr	ywt. 4	2092611	CK	31-Aug-12	353.2	GAL
Nitrite as N	0.299	0.080 mg/kg dr	ywt. 4	2092611	CK	30-Aug-12	353.2	GAL
pH*	7.87	0.100 pH Un	nits 1	2082706	HM	24-Aug-12	9045	
Phenois	ND	0.5 mg/kg dr	y wt. 1	2092619	CK	12-Sep-12	EPA9065	GAL
Sulfate	142	40.0 mg/k	g 4	2082806	AP	29-Aug-12	375.4	

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3-3 H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	ıl Laborat	ories					
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		79.1 %	65.2	-140	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		93.5 %	63.6	-154	2082302	MS	24-Aug-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	C K	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		96.3 %	35-	140	2092621	CK	29-Aug-12	8082	
Radionuclides									
Radium-226	ND	0.40	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Volatile Organic Compounds by GCMS									
Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey D. Keens



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 3 H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Volatile Organic Compounds by GCMS									
Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		101 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		105 %	70 -	130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.9 %	<i>70</i> -	130	2083011	ms	30-Aug-12	8260	
Semivolatile Organic Compounds by GCMS									
Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methyln aphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Celeg & Keens



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

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

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 3 H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS							· · · · · · · · · · · · · · · · · · ·		
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		31.1 %	16.1	-91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		38.1 %	27.2	-92.9	2082202	ms	31-Aug-12	827 0 C	
Surrogate: Terphenyl-dl4		48.3 %	21.3	-96.1	2082202	ms	31-Aug-12	8270 C	

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Eddie Seay Consulting 601 W. Illinois Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM
Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 4 H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal	Laborato	ries					
Total Metals									····
Arsenic	0.702	0.500 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Barium	12.9	0.50 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Cadmium	ND	0.100 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Chromium	1.76	1.00 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Copper	0.673	0.100 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Iron	2660	5.0 mg	g/kg dry wt.	100	2092612	CK	31-Aug-12	6010	GAL
Lead	1.90	0.50 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Manganese	19.6	0.500 mg	g/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Mercury	ND	0.098 mg	y/kg dry wt.	490	2092614	CK	04-Sep-12	7471A	GAL
Selenium	ND	1.00 mg	kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Silver	ND	0.100 mg	/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Uranium	ND	0.100 mg	/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Zinc	1.65	1.00 mg	z/kg dry wt.	1000	2092613	CK	17-Sep-12	6020	GAL
Inorganic Compounds									
% Solids	99.7		%	1	2092607	CK	29-Aug-12	D2216	GAL
Chloride	ND	16.0	mg/kg	4	2082307	HM	23-Aug-12	4500-Cl-B	
Cyanide (total)	ND	0.250 mg	/kg dry wt.	50	2092608	CK	29-Aug-12	335.4	GAL
Fluoride	2.16	0.800 mg	/kg dry wt.	4	2092610	CK	27-Aug-12	4500F C	GAL
Nitrate/Nitrite as N	1.65	0.080 mg	g/kg dry wt.	4	2092611	CK	31-Aug-12	353.2	GAL
Nitrite as N	0.117	0.080 mg	y/kg dry wt.	4	2092611	CK	30-Aug-12	353.2	GAL
pH*	7.25	0.100	pH Units	1	2082706	HM	24-Aug-12	9045	
Phenois	ND	0.5 mg	/kg dry wt.	1	2092619	CK	12-Sep-12	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	2082806	AP	29-Aug-12	375.4	

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3-4 H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
Organic Compounds									··
GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		95.4 %	65.2	-140	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		101 %	63.6	-154	2082302	MS	24-Aug-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		74.4 %	35-	140	2092621	CK	29-Aug-12	8082	
Radionuclides									
Radium-226	ND	0.50	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Volatile Organic Compounds by GCMS									
Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey & Keins

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM
Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 4 H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories					
Volatile Organic Compounds by GCMS									
Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		98.3 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		106 %	70-	130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.7 %	70-	130	2083011	ms	30-Aug-12	8260	
Semivolatile Organic Compounds by GCMS									
Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM
Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

CELL 3 - 4 H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories					
Semivolatile Organic Compounds by GCMS									
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	ту/ку	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		32.5 %	16.1	91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		<i>37.6</i> %	27.2	92.9	2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-dl4		43.6%	21.3	96.1	2082202	ms	31-Aug-12	8270C	

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Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals - Quality Control

Cardin	al Labora	atories	

Amakata	Damile	Reporting Limit	Timita	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70KEC	Limits	KPD	Limit	Notes
Batch 2092612 - EPA 3050										
Blank (2092612-BLK1)				Prepared &	Analyzed:	31-Aug-12				
Iron	ND	5.0	mg/kg dry wt.							
LCS (2092612-BS1)				Prepared &	. Analyzed:	31-Aug-12				
Iron	3.8		mg/kg	4.00		95.5	85-115			
LCS Dup (2092612-BSD1)				Prepared &	Analyzed:	31-Aug-12				
Iron	3.7		mg/kg	4.00		92.8	85-115	2.92	20	
Batch 2092613 - EPA 3050										
Blank (2092613-BLK1)				Prepared: ()5-Sep-12 A	nalyzed: 17	7-Sep-12			
Barium	ND	0.0005	mg/kg dry wt.							
Cadmium	ND	0.0001	mg/kg dry wt.							
Соррег	ND	0.000100	mg/kg dry wt.							
Selenium	ND	0.001	mg/kg dry wt.							
Uranium	ND	0.0001	mg/kg dry wt.							
Zinc	ND	0.00100	mg/kg dry wt.							
Arsenic	ND	0.0005	mg/kg dry wt.							
Chromium	ND	0.001								
Lead	ND	0.0005	mg/kg dry wt.							
Manganese	ND	0.000500	mg/kg dry wt.							
Silver	ND	0.0001								
LCS (2092613-BS1)				Prepared: (05-Sep-12 A	analyzed: 17	-Sep-12			

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

Tallayer. Coule Seay

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Cardinal Laboratories

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit U	nits Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092613 - EPA 3050									
LCS (2092613-BS1)			Prepared:	05-Sep-12 A	nalyzed: 1	7-Sep-12			
Silver	0.0491	m	g/L 0.0500		98.2	85-115			
Chromium	0.053	m	g/L 0.0500		106	85-115			
Arsenic	0.056	m	g/L 0.0500		112	85-115			
Zinc	0.0586	mį	g/kg 0.0500		117	80-120			
Barium	0.06	m	g/L 0.0500		113	85-115			
Lead	0.05	m	g/L 0.0500		108	85-115			
Selenium	0.279	m	g/L 0.250		112	85-115			
Uranium	0.0563	mį	g/kg 0.0500		113	85-115			
Copper	0.0542	mį	ykg 0.0500		108	85-115			
Cadmium	0.0565	m	g/L 0.0500		113	85-115			
Manganese	0.0521	mį	g/kg 0.0500		104	85-115			
LCS Dup (2092613-BSD1)			Prepared:	05-Sep-12 A	nalyzed: 1	7-Sep-12			
Silver	0.0530	m	g/L 0.0500		106	85-115	7.64	20	
Selenium	0.287	m	g/L 0.250		115	85-115	2.83	20	
Zinc	0.0577	mį	/kg 0.0500		115	80-120	1.55	20	
Barium	0.05	m	g/L 0.0500		109	85-115	3.60	20	
Cadmium	0.0567	m	g/L 0.0500		113	85-115	0.353	20	
Chromium	0.056	m	g/L 0.0500		113	85-115	5.66	20	
Arsenic	0.058	m	g/L 0.0500		115	85-115	2.64	20	
Copper	0.0547		/kg 0.0500		109	85-115	0.918	20	
Manganese	0.0572	mį	/kg 0.0500		114	85-115	9.33	20	
Uranium	0.0540	mg	/kg 0.0500		108	85-115	4.17	20	
Lead	0.05	m	g/L 0.0500		105	85-115	3.38	20	
Batch 2092614 - EPA 7471									
Blank (2092614-BLK1)			Prepared	& Analyzed:	04-Sep-12				
Mercury	ND	0.100 mg/k		· · · · · · · · · · · · · · · · · · ·					
		-							

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

Mercury (Total) by CVAA - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2092614 - EPA 7471											
LCS (2092614-BS1)	Prepared & Analyzed: 04-Sep-12										
Mercury	1.00		mg/kg	1.00		100	85-115				
LCS Dup (2092614-BSD1)	Prepared & Analyzed: 04-Sep-12										
Mercury	1.00		mg/kg	1,00		100	85-115	0.00	20		

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2082307 - 1:4 DI Water										
Blank (2082307-BLK1)				Prepared &	Analyzed:	23-Aug-12			_	
Chloride	ND	16.0	mg/kg							
LCS (2082307-BS1)				Prepared &	Analyzed:	23-Aug-12				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2082307-BSD1)				Prepared &	Analyzed:	23-Aug-12				
Chloride	384	16.0	mg/kg	400		96.0	80-120	4.08	20	
Batch 2082706 - 1:1 DI										
LCS (2082706-BS1)				Prepared &	Analyzed:	24-Aug-12				
pH	7.07		pH Units	7.00		101	90-110			
Duplicate (2082706-DUP1)	Sou	rce: H201997	-01	Prepared &	Analyzed:	24-Aug-12				
pH	7.37	0.100	pH Units		7.39			0.271	20	
Batch 2082806 - General Prep - Wet Chem										
Blank (2082806-BLK1)				Prepared: 2	28-Aug-12 A	nalyzed: 2	9-Aug-12			
Sulfate	ND	10.0	mg/kg							
LCS (2082806-BS1)				Prepared: 2	28-Aug-12 A	nalyzed: 2	9-Aug-12			
Sulfate	18.4	10.0	mg/kg	20.0		92.0	80-120			
LCS Dup (2082806-BSD1)				Prepared: 2	28-Aug-12 A	malyzed: 2	9-Aug-12			
Sulfate	16.4	10.0	mg/kg	20.0		82.0	80-120	11.5	20	

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Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

27-Sep-12 10:16

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092608 - General Prep										
Blank (2092608-BLK1)				Prepared &	Analyzed:	29-Aug-12				
Cyanide (total)	ND	0.00500	mg/kg dry wt.							
LCS (2092608-BS1)				Prepared &	Analyzed:	29-Aug-12				
Cyanide (total)	0.0433		mg/L	0.0500		86.6	85-115			
LCS Dup (2092608-BSD1)				Prepared &	Analyzed:	29-Aug-12				
Cyanide (total)	0.0429		mg/L	0.0500		85.8	85-115	0.928	20	
Batch 2092610 - General Prep										
Blank (2092610-BLK1)				Prepared &	Analyzed:	27-Aug-12				
Fluoride	ND	0.200	mg/kg dry wt.							
LCS (2092610-BS1)				Prepared &	Analyzed:	27-Aug-12				
Fluoride	1.13		mg/L	1.00		113	85-115			
LCS Dup (2092610-BSD1)				Prepared &	Analyzed:	27-Aug-12				
Fluoride	1.00		mg/L	1.00		100	85-115	12.2	20	
Batch 2092611 - General Prep										
Blank (2092611-BLK1)				Prepared &	Analyzed:	30-Aug-12				
Nitrite as N	ND	0.020	mg/kg dry wt.							
Nitrate/Nitrite as N	ND	0.020	mg/kg dry wt.							
LCS (2092611-BS1)				Prepared &	Analyzed:	30-Aug-12				
Nitrite as N	0.088		mg/L	0.100		88.0	85-115			
Nitrate/Nitrite as N	0.094		mg/L	0.100		94.0	85-115			

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27-Sep-12 10:16

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Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092611 - General Prep										
LCS Dup (2092611-BSD1)				Prepared &	Analyzed:	30-Aug-12				
Nitrite as N	0.094		mg/L	0.100		94.0	85-115	6.59	20	
Nitrate/Nitrite as N	0.088		mg/L	0.100		88.0	85-115	6.59	20	
Batch 2092619 - General Prep										
Blank (2092619-BLK1)				Prepared &	Analyzed:	12-Sep-12				
Phenois	ND	0.5	mg/kg dry							
			wt.							
LCS (2092619-BS1)				Prepared &	Analyzed:	12-Ѕер-12				
Phenols	0.4		mg/kg	0.400		96.2	7 0-130			
Matrix Spike (2092619-MS1)	Sour	ce: H201972	-01	Prepared &	Analyzed:	12-Ѕер-12				
Phenols	4.0		mg/kg	4.08	0.0	98.0	70-130			
Matrix Spike Dup (2092619-MSD1)	Sour	ce: H201972	-01	Prepared &	Analyzed:	12-Ѕер-12				
Phenols	4.0		mg/kg	4.08	0.0	97.5	70-130	0.501	20	

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27-Sep-12 10:16

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Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2082302 - General Prep - Organics				 			· · · · · · · · · · · · · · · · · · ·			
Blank (2082302-BLK1)				Prepared &	Analyzed:	23-Aug-12	<u> </u>			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.3		mg/kg	50.0		78.6	65.2-140			
Surrogate: 1-Chlorooctadecane	46 .7		mg/kg	50.0		93.4	63.6-15 4			
LCS (2082302-BS1)				Prepared &	Analyzed:	23-Aug-12	2			
GRO C6-C10	187	10.0	mg/kg	200		93.3	66.4-124			
DRO>C10-C28	182	10.0	mg/kg	200		90.9	61.6-132			
Total TPH C6-C28	368	10.0	mg/kg	400		92.1	69.7-122			
Surrogate: 1-Chlorooctane	46,5		mg/kg	50.0		92.9	65.2-140		,	
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	63.6-154			
LCS Dup (2082302-BSD1)				Prepared &	Analyzed:	23-Aug-12	2			
GRO C6-C10	188	10.0	mg/kg	200		93.8	66.4-124	0.454	23.4	
DRO >C10-C28	184	10.0	mg/kg	200		92.1	61.6-132	1.40	23.1	
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	69.7-122	0.924	20.6	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	65.2-140			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	63.6-154			

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Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092621 - 3550										
Blank (2092621-BLK1)				Prepared: 2	23-Aug-12	Analyzed: 2	29-Aug-12	,		
PCB 1016	ND	10.0	ug/kg							
PCB 1221	ND	10.0	ug/kg							
PCB 1232	ND	10.0	ug/kg							
PCB 1242	ND	10.0	ug/kg							
PCB 1248	ND	10.0	ug/kg							
PCB 1254	ND	10.0	ug/kg							
PCB 1260	ND	10.0	ug/kg							
Surrogate: Tetrachloro-meta-xylene	9.00		ug/L	10.0		90.0	35-140			
LCS (2092621-BS1)				Prepared: 2	23-Aug-12	Analyzed: 2	29-Aug-12			
PCB 1016	74.9		ug/L	100		74.9	40-130			
PCB 1260	64.6		ug/L	100		64.6	40-130			
Surrogate: Tetrachloro-meta-xylene	8.07		ug/L	10.0		80.7	35-140			
Matrix Spike (2092621-MS1)	Source	e: H201972-	-01	Prepared: 2	23-Aug-12	Analyzed: 2	29-Aug-12			
PCB 1016	77.9		ug/L	100	ND	77 .9	40-130			
PCB 1260	71.0		ug/L	100	ND	71.0	40-130			
Surrogate: Tetrachloro-meta-xylene	8.76		ug/L	10.0		87.6	35-140			
Matrix Spike Dup (2092621-MSD1)	Source	e: H201972-	-01	Prepared: 2	23-Aug-12	Analyzed: 2	29-Aug-12			
PCB 1016	86.6		ug/L	100	ND	86.6	40-130	10.6	20	
PCB 1260	66.1		ug/L	100	ND	66.1	40-130	7.15	20	
Surrogate: Tetrachloro-meta-xylene	7.73		ug/L	10.0		77.3	35-140			

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Celey L. Keene

%REC



Analytical Results For:

Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

RPD

Fax To: (505) 392-6949

Spike

Source

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Reporting

		Keporing		Shire	30ui ce		ALLEC		Kri	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2083011 - Volatiles										
Blank (2083011-BLK1)				Prepared &	Analyzed:	30-Aug-12				
Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.464		mg/kg	0.500		92.7	70-130			
Surrogate: Toluene-d8	0.542		mg/kg	0.500		108	70-1 30			
Surrogate: 4-Bromofluorobenzene	0.450		mg/kg	0.500		90.0	70-1 30			
LCS (2083011-BS1)				Prepared &	Analyzed:	30-Aug-12				
Vinyl chloride	0.517	0.0500	mg/kg	0.500		103	70-130			
1,1-Dichloroethene	0.442	0.0500	mg/kg	0.500		88.4	70-130			
Methylene chloride	0.466	0.0500	mg/kg	0.500		93.2	70-130			
,1-Dichloroethane	0.499	0.0500	mg/kg	0.500		99.8	70-130			
Chloroform	0.467	0.0500	mg/kg	0.500		93.4	70-130			
Carbon tetrachloride	0.492	0.0500	mg/kg	0.500		98.5	70-130			
1,1,1-Trichloroethane	0.489	0.0500	mg/kg	0.500		97.8	7 0-130			

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2083011 - Volatiles										
LCS (2083011-BS1)				Prepared &	Analyzed:	30-Aug-12				
Benzene	0.504	0.0500	mg/kg	0.500		101	70-130			
1,2-Dichloroethane	0.481	0.0500	mg/kg	0.500		96.3	70-13 0			
Trichloroethene	0.497	0.0500	mg/kg	0.500		99.4	7 0-1 3 0			
Toluene	0.501	0.0500	mg/kg	0.500		100	70-130			
Tetrachloroethene	0,525	0.0500	mg/kg	0.500		105	70-130			
1,1,2-Trichloroethane	0.485	0.0500	mg/kg	0.500		97.0	70-130			
1,2-Dibromoethane	0.469	0.0500	mg/kg	0.500		93.8	7 0-1 3 0			
Ethylbenzene	0.500	0.0500	mg/kg	0.500		100	70-130			
m-p Xylenes	0.992	0.100	mg/kg	1.00		99.2	70-130			
o-Xylene	0.470	0.0500	mg/kg	0,500		94.0	70-130			
Total Xylenes	1.46	0.150	mg/kg	1.50		97.5	70-130			
1,1,2,2-Tetrachloroethane	0.452	0.0500	mg/kg	0.500		90.4	70-130			
Naphthalene	0.423	0.0500	mg/kg	0.500		84.7	70-130			
Surrogate: Dibromofluoromethane	0.484		mg/kg	0.500		96.7	70-130			
Surrogate: Toluene-d8	0.500		mg/kg	0.500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.498		mg/kg	0.500		99.6	70-130			
LCS Dup (2083011-BSD1)				Prepared &	: Analyzed:	30-Aug-12				
Vinyl chloride	0.402	0.0500	mg/kg	0.500		80.4	70-130	25.0	20	QR-02
1,1-Dichloroethene	0.380	0.0500	mg/kg	0.500		7 6.1	70-130	15.0	20	
Methylene chloride	0.430	0.0500	mg/kg	0.500		86.0	70-130	8.01	20	
1,1-Dichloroethane	0.458	0.0500	mg/kg	0.500		91.6	70-130	8.61	20	
Chloroform	0.433	0.0500	mg/kg	0.500		86.5	70-130	7.67	20	
Carbon tetrachloride	0.440	0.0500	mg/kg	0.500		88.1	70-130	11.2	20	
1,1,1-Trichloroethane	0.442	0.0500	mg/kg	0.500		88.5	70-130	10.0	20	
Benzene	0.460	0.0500	mg/kg	0.500		92.1	70-130	9.14	20	
1,2-Dichloroethane	0.449	0.0500	mg/kg	0.500		89.8	70-130	6.92	20	
Trichloroethene	0.453	0.0500	mg/kg	0.500		90.5	70-130	9.32	20	
Toluene	0.468	0.0500	mg/kg	0.500		93.7	70-130	6.72	20	
Tetrachloroethene	0.483	0.0500	mg/kg	0.500		96.6	70-130	8.39	20	
1,1,2-Trichloroethane	0.459	0.0500	mg/kg	0.500		91.8	7 0-1 3 0	5,53	20	
1,2-Dibromoethane	0.451	0.0500	mg/kg	0.500		90.3	70-130	3.87	20	

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Celey & Keens



Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported: 27-Sep-12 10:16

601 W. Illinois Hobbs NM, 88242

Project Number: DD LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2083011 - Volatiles	,									
LCS Dup (2083011-BSD1)				Prepared &	Analyzed:	30-Aug-12	2			
Ethylbenzene	0.462	0.0500	mg/kg	0.500		92.5	70-130	7.80	20	
m-p Xylenes	0.921	0.100	mg/kg	1.00		92.1	7 0-1 3 0	7.48	20	
o-Xylene	0.437	0.0500	mg/kg	0.500		87.5	70-130	7.23	20	
Total Xylenes	1.36	0.150	mg/kg	1.50		90.5	7 0-130	7.40	20	
1,1,2,2-Tetrachloroethane	0.438	0.0500	mg/kg	0.500		87.7	70-130	3.02	20	
Naphthalene	0.408	0.0500	mg/kg	0.500		81.7	70-130	3.65	20	
Surrogate: Dibromofluoromethane	0.478		mg/kg	0.500		95.6	70-130			
Surrogate: Toluene-d8	0.510		mg/kg	0.500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.497		mg/kg	0.500		99.4	70-130			

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Celey & Keens

%REC



Analytical Results For:

Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

RPD

Fax To: (505) 392-6949

Spike

Source

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Reporting

		Reporting		Spike	Source		%REC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2082202 - SW-846 3550										,
Blank (2082202-BLK1)				Prepared: 2	20-Aug-12	Analyzed: 2	1-Aug-12			
Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	MD	0.040	mg/kg							
l-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
ndeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo(g,h,i)perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	0.937		mg/kg	2.00		46.8	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	0.930		mg/kg	2.00		46.5	27.2-92.9			
Surrogate: Terphenyl-dl4	1.02		mg/kg	2.00		51.0	21.3-96.1			
LCS (2082202-BS1)				Prepared: 2	20-Aug-12	Analyzed: 2	1-Aug-12			
Naphthalene	0.174	0.040	mg/kg	0.400		43.4	5.46-157	. ,		
2-Methylnaphthalene	0.148	0.040	mg/kg	0.400		36.9	16.1-146			
Acenaphthylene	0.235	0.040	mg/kg	0.400		58.8	21.6-144			
Acenaphthene	0.238	0.040	mg/kg	0.400		59.6	27-143			
Fluorene	0.237	0.040	mg/kg	0.400		59.2	30.9-138			
Phenanthrene	0.254	0.040	mg/kg	0.400		63.6	38.6-149			
Anthracene	0.244	0.040	mg/kg	0.400		61.0	36.1-149			
Carbazole	0.240	0.040	mg/kg	0.400		60.1	29.8-144			

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Eddie Seay Consulting

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay 27-Sep-12 10:16

Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2082202 - SW-846 3550										
LCS (2082202-BS1)				Prepared: 2	20-Aug-12	Analyzed: 2	21-Aug-12			
Fluoranthene	0.250	0.040	mg/kg	0.400		62.4	34.6-148			
Pyrene	0.236	0.040	mg/kg	0.400		59.0	24.8-154			
Benzo[a]anthracene	0.229	0.040	mg/kg	0.400		57.2	0-179			
Chrysene	0.241	0.040	mg/kg	0.400		60.3	35.1-150			
Benzolbjflouranthene	0.240	0.040	mg/kg	0.400		59.9	17.6-158			
Benzo[k]flouranthene	0.274	0.040	mg/kg	0.400		68.4	10.6-169			
Benzolajpyrene	0.243	0.040	mg/kg	0.400		60.8	2.25-166			
Indeno[1,2,3-cd]pyrene	0.248	0.040	mg/kg	0.400		61.9	0-181			
Dibenz[a,h]anthracene	0.257	0.040	mg/kg	0.400		64.2	2.49-177			
Benzo[g,h,i]perylene	0.262	0.040	mg/kg	0.400		65.4	0-173			
Surrogate: Nitrobenzene-d5	1.20		mg/kg	2.00		59.9	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.27		mg/kg	2.00		63.5	27.2-92.9			
Surrogate: Terphenyl-dl4	1.32		mg/kg	2.00		66.2	21.3-96.1			
LCS Dup (2082202-BSD1)				Prepared: 2	20-Aug-12 A	Analyzed: 2	21-Aug-12			
Naphthalene	0.271	0.040	mg/kg	0.400		67.7	5.46-157	43.7	50	
2-Methylnaphthalene	0.282	0.040	mg/kg	0.400		70.4	16.1-146	62.4	50	QR-02
Acenaphthylene	0.396	0.040	mg/kg	0.400		99.0	21.6-144	51.0	50	QR-02
Acenaphthene	0.344	0.040	mg/kg	0.400		86.0	27-143	36.2	50	
Fluorene	0.367	0.040	mg/kg	0.400		91.7	30.9-138	43.1	50	
Phenanthrene	0.372	0.040	mg/kg	0.400		93.0	38.6-149	37.7	50	
Anthracene	0.356	0.040	mg/kg	0.400		89.0	36.1-149	37.2	50	
Carbazole	0.355	0.040	mg/kg	0.400		88.8	29.8-144	38.6	50	
Fluoranthene	0.360	0.040	mg/kg	0.400		90.1	34.6-148	36.3	50	
Pyrene	0.359	0.040	mg/kg	0.400		89.7	24.8-154	41.3	50	
Benzo[a]anthracene	0.339	0.040	mg/kg	0.400		84.8	0-179	38.8	50	
Chrysene	0.353	0.040	mg/kg	0.400		88.3	35.1-150	37.6	50	
Benzo[b]flouranthene	0.349	0.040	mg/kg	0.400		87.4	17.6-158	37.3	50	
Benzolkjflouranthene	0.394	0.040	mg/kg	0.400		98.6	10.6-169	36.1	44.6	
Benzolalpyrene	0.368	0.040	mg/kg	0.400		91.9	2.25-166	40.8	60.5	
Indeno[1,2,3-cd]pyrene	0.411	0.040	mg/kg	0.400		103	0-181	49.5	77	
Dibenz a,h anthracene	0.428	0.040	mg/kg	0.400		107	2.49-1 <i>7</i> 7	50.0	63.3	

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Celuy T. Keens



Eddie Seay Consulting 601 W. Illinois

Project: DD LANDFARM (01-0034) 5 YR MO

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: DD LANDFARM Project Manager: Eddie Seay

27-Sep-12 10:16

Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 2082202 - SW-846 3550										

LCS Dup (2082202-BSD1)				Prepared: 20-Au	g-12 Analyzed:	21-Aug-12			
Benzo[g,h,i]perylene	0.435	0.040	mg/kg	0.400	109	0-173	49.9	77.4	
Surrogate: Nitrobenzene-d5	1.72		mg/kg	2.00	86.2	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.70		mg/kg	2.00	84.9	27.2-92.9			
Surrogate: Terphenyl-dl4	1.96		mo/ko	2.00	97.8	21.3-96.1			

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Celey & Keens



Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey to Keens

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

2012 MAR - 2 A 10: 05

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

RE: DD Landfarm (Permit #01-0034)

Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four randomly selected samples from each cell, testing for BTEX, TPH and Chloride. I also composited the four vadose samples to make a sample to be analyzed for WQCC metals, for each cell.

We will continue to operate and maintain the facility as our permit and rule 36 requires. We will finish up sampling of the cells for the "Five Year Monitoring" on the next sampling event.

If you have any questions or need anything further, please call.

Sincerely,

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois Hobbs, NM 88242 575-392-2236

seay04@leaco.net

cc: DD Landfarm



February 24, 2012

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 02/08/12 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab-accred-certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay Fax To: (505) 392-6949 Reported: 24-Feb-12 17:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - 1T	H200315-01	Soil	08-Feb-12 06:50	08-Feb-12 16:40
CELL 1 - 1V	H200315-02	Soil	08-Feb-12 07:20	08-Feb-12 16:40
CELL 1 - 2V	H200315-03	Soil	08-Feb-12 07:40	08-Feb-12 16:40
CELL 1 - 3V	H200315-04	Soil	08-Feb-12 08:10	08-Feb-12 16:40
CELL 1 - 4V	H200315-05	Soil	08-Feb-12 08:30	08-Feb-12 16:40
CELL 1 - 5VM	H200315-06	Soil	08-Feb-12 08:55	08-Feb-12 16:40
CELL 2 - 1T	H200315-07	Soil	08-Feb-12 09:25	08-Feb-12 16:40
CELL 2 - 1V	H200315-08	Soil	08-Feb-12 09:50	08-Feb-12 16:40
CELL 2 - 2V	H200315-09	Soil	08-Feb-12 10:30	08-Feb-12 16:40
CELL 2 - 3V	H200315-10	Soil	08-Feb-12 10:55	08-Feb-12 16:40
CELL 2 - 4V	H200315-11	Soil	08-Feb-12 11:30	08-Feb-12 16:40
CELL 2 - 5VM	H200315-12	Soil	08-Feb-12 11:45	08-Feb-12 16:40
CELL 3-1T	H200315-13	Soil	08-Feb-12 12:40	08-Feb-12 16:40
CELL 3-1V	H200315-14	Soil	08-Feb-12 14:00	08-Feb-12 16:40
CELL 3 - 2V	H200315-15	Soil	08-Feb-12 14:25	08-Feb-12 16:40
CELL 3 - 3V	H200315-16	Soil	08-Feb-12 15:05	08-Feb-12 16:40
CELL 3 - 4V	H200315-17	Soil	08-Feb-12 15:40	08-Feb-12 16:40
CELL 3 - 5VM	H200315-18	Soil	08-Feb-12 14:50	08-Feb-12 16:40

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Celey D. Keens



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 1-1T H200315-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	· ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	l	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctane		97.9 %	55.5	154	2021139	MS	09-Feb-12	8015M	=
Surrogate: 1-Chlorooctadecane		99.8 %	57.6	158	2021139	MS	09-Feb-12	8015M	

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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay Fax To: (505) 392-6949 Reported: 24-Feb-12 17:13

CELL 1-1V

H200315-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-C1-B	•
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctane		92.3 %	55.5	-154	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		89.9 %	57.6	-158	2021139	MS	09-Feb-12	8015M	
Volatile Organic Compounds by EPA Met	hod 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	14-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	ΑP	14-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	14-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	14-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		117%	64.4	-134	2021405	ΑP	14-Feb-12	8021B	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Reported: 24-Feb-12 17:13

Fax To: (505) 392-6949

CELL 1 - 2V H200315-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Labora	tories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctane		97.3 %	55.5	5-154	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		98.6 %	57.6	5-158	2021139	MS	09-Feb-12	8015M	
Volatile Organic Compo	unds by EPA Method 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzes	ne (PID)	104 %	64.4	1-134	2021405	AP	15-Feb-12	8021B	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 1-3V H200315-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories			· ——		
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-CI-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctane		75.1 %	55.5	-154	2021139	MS	09-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		75.3 %	57.6	-158	2021139	MS	09-Feb-12	8015M	
Volatile Organic Compounds by EPA Metho	od 8021								
Benzene .	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	·
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		101 %	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Celey & Keens



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Reported: 24-Feb-12 17:13

01 W. Illinois

Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - 4V H200315-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane	r	114 %	55.5	-154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		112 %	57.6	-158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA Meth	od 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		105 %	64.4	134	2021405	AP	15-Feb-12	8021B	

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Celey & Kuns



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Inorganic Compounds

% Solids

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Project Number: DD LF

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

CELL 1-5VM

H200315-06 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ries					
Total Metals					_			
Arsenic	ND	10.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Barium	13.1	1.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Cadmium	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Chromium	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Copper	ND	3.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Iron	2110	5.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Lead	ND	10.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Manganese	26.1	0.5 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Mercury	ND	0.095 mg/kg dry wt.	476	2022411	CK	14-Feb-12	7471A	GAL
Selenium	ND	20.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Silver	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Zinc	5.5	5.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL

2022412

14-Feb-12

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay Fax To: (505) 392-6949 Reported: 24-Feb-12 17:13

CELL 2-1T

H200315-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-CI-B	
Organic Compounds									
GRO C6-C10	ND	50.0	mg/kg	5	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	50.0	mg/kg	5	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane		87.1 %	55.5	-154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		95.9 %	57.6	-158	2021139	MS	10-Feb-12	8015M	

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Celey D. Keene



Eddie Seay Consulting 601 W. Illinois

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Hobbs NM, 88242

Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2-1V H200315-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	•	Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-CI-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane		98.4 %	55.5-	154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		98.3 %	57.6-	158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA Met	thod 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	ΑP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		108 %	64.4-	134	2021405	AP	15-Feb-12	8021B	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Reported: 24-Feb-12 17:13

Fax To: (505) 392-6949

CELL 2-2V H200315-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds							-		
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS.	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane		111 %	55.5	-154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		111 %	57.6	-158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA	Method 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	. ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	-	110%	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 2-3V

H200315-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-C1-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane		106 %	55.5	-154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		106 %	57.6	-158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA M	ethod 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		106 %	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Project Number: DD LF
Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 2-4V

H200315-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds					<u></u>				
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane		104 %	55.5	-154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		106 %	57.6	-158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA	Method 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	ΑP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	. 50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		107 %	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 2 - 5VM H200315-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
Total Metals									
Arsenic	ND	10.0 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Barium	12.3	1.00 m	ıg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Cadmium	ND	5.00 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Chromium	ND	5.00 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Copper	ND	3.00 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Iron	2240	5.0 m	ıg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Lead	ND	10.0 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Manganese	23.4	0.5 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Mercury	ND	0.099 m	ng/kg dry wt.	495	2022411	CK	14-Feb-12	7471A	GAL
Selenium	ND	20.0 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Silver	ND	5.00 m	ıg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Zinc	5.1	5.0 m	ng/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Inorganic Compounds									
% Solids	98.7		%	4	2022412	CK	14-Feb-12	D2216	GAL
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctane	·	82.1 %	55.5-1	154	2021139	MS	10-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		83.7 %	57.6-1	158	2021139	MS	10-Feb-12	8015M	
Volatile Organic Compounds by EPA Met	hod 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	ΑP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		109 %	64.4-1	134	2021405	AP	15-Feb-12	8021B	

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Celeg D. Kuna

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Reported: 24-Feb-12 17:13

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 1T H200315-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	80.0	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
DRO >C10-C28	12.1	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctane		105 %	55.5	-154	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		111 %	57.6	-158	2021130	MS	13-Feb-12	8015M	

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Eddie Seay Consulting 601 W. Illinois

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Hobbs NM, 88242

Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-1V H200315-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctane		78.6 %	55.5	-154	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		81.0 %	57.6	-158	2021130	MS	13-Feb-12	8015M	
Volatile Organic Compounds by EPA	Method 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	ΑP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		107 %	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Eddie Seay Consulting

601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 3 - 2V H200315-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctane		91.2 %	55.5	154	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		99.5 %	57.6	158	2021130	MS	13-Feb-12	8015M	
Volatile Organic Compounds by EPA Meth	od 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	. 50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		105 %	64.4	134	2021405	AP	15-Feb-12	8021B	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay Fax To: (505) 392-6949 Reported: 24-Feb-12 17:13

CELL 3 - 3V H200315-16 (Soil)

			`						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	tories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-CI-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctane		106 %	55.5	-154	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		108 %	57.6	-158	2021130	MS	13-Feb-12	8015M	
Volatile Organic Compounds by EPA M	Method 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AΡ	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		106 %	64.4	-134	2021405	AP	15-Feb-12	8021B	· ·

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Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported:

24-Feb-12 17:13

CELL 3-4V

H200315-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2021117	AP	11-Feb-12	4500-Cl-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctane		97.5 %	55.5	-154	2021130	MS	13-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		101 %	57.6	-158	2021130	MS	13-Feb-12	8015M	
Volatile Organic Compounds by EPA M	ethod 8021								
Benzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2021405	AP	15-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2021405	ΑP	15-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		107 %	64.4	-134	2021405	AP	15-Feb-12	8021B	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

CELL 3 - 5VM H200315-18 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ries					
Total Metals								
Arsenic	ND	10.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Barium	10.9	1.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Cadmium	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Chromium	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Copper	ND	3.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Iron	1930	5.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Lead	ND	10.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Manganese	23.4	0.5 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Mercury	ND	0.098 mg/kg dry wt.	490	2022411	CK	14-Feb-12	7471A	GAL
Selenium	ND	20.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Silver	ND	5.00 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010B	GAL
Zinc	5.1	5.0 mg/kg dry wt.	100	2022409	CK	15-Feb-12	6010	GAL
Inorganic Compounds								
% Solids	97.6	%	4	2022412	CK	14-Feb-12	D2216	GAL

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%REC



Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

- -

Spike

Source

Reported: 24-Feb-12 17:13

RPD

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022409 - EPA 3050										
Blank (2022409-BLK1)				Prepared &	Analyzed:	15-Feb-12				
Barium	ND	0.0100	mg/kg dry			•				
			wt.							
Iron	ND	0.05	mg/kg dry							
			wt.							
Chromium	ND	0.0500	mg/kg dry		•					
			wt.							
Copper	0.03	0.02	mg/kg dry							A-01
			wt.							
Selenium	ND	0.200	mg/kg dry							
			wt.							
Cadmium	ND	0.0500	mg/kg dry							
			wt.							
Lead	ND	0.100	mg/kg dry							
			wt.							
Manganese	ND	0.005	mg/kg dry							
			wt.							
Arsenic	ND	0.100	mg/kg dry							
			wt.							
Silver	ND	0.050	mg/kg dry							
~			wt.							
Zinc	ND	0.05	mg/kg dry							
			wt.							

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Copper

Project: D D LANDFARM

Project Number: DD LF

Reported: 24-Feb-12 17:13

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ratch 2022409 - FPA 3050										

Datch 2022-109 - EFA 3030					
LCS (2022409-BS1)			Prepared & Ana	lyzed: 15-Feb-12	2
Barium	1.96	mg/kg	2.00	98.0	85-115
Chromium	2.03	mg/kg	2.00	102	85-115
Arsenic	3.84	mg/kg	4.00	96.0	85-115
Lead	2.04	mg/kg	2.00	102	85-115
Selenium	7.84	mg/kg	8.00	98.0	85-115
Cadmium	2.02	mg/kg	2.00	101	85-115
Iron	4.0	mg/kg	4.00	101	85-115
Silver	0.098	mg/kg	0.100	98.0	85-115
Zinc	2.0	mg/kg	2.00	98.5	85-115
Manganese	2.0	mg/kg	2.00	99.0	85-115

mg/kg

4.00

103

85-115

4.13

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Project Number: DD LF

Project Manager: Eddie Seay

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Reported: 24-Feb-12 17:13

Total Metals - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2022409 - EPA 3050	<u> </u>										
LCS Dup (2022409-BSD1)	Prepared & Analyzed: 15-Feb-12										
Arsenic	3.79	n	mg/kg	4.00		94.8	85-115	1.31	20		
Zinc	2.0	n	mg/kg	2.00		99.0	85-115	0.506	20		
Selenium	7.87	n	mg/kg	8.00		98.4	85-115	0.382	20		
Barium	1.96	n	mg/kg	2.00		98.0	85-115	0.00	20		
Lead	2.04	n	mg/kg	2.00		102	85-115	0.00	20		
Cadmium	2.04	n	mg/kg	2.00		102	85-115	0.985	20		
Silver	0.099	n	mg/kg	0.100		99.0	85-115	1.02	20		
Iron	4.0	n	mg/kg	4.00		101	85-115	0.248	20		
Chromium	2.04	n	mg/kg	2.00		102	85-115	0.491	20		
Copper	4.15	n	mg/kg	4.00		104	85-115	0.483	20		
Manganese	2.0	n	mg/kg	2.00		99.5	85-115	0.504	20		

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Project Number: DD LF

Reported: 24-Feb-12 17:13

Project N

Project Manager: Eddie Seay

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Total Metals - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2022411 - EPA 7471

Blank (2022411-BLK1) Prepared & Analyzed: 14-Feb-12

Mercury ND 0.0002 mg/kg dry

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Celey D. Keene, Lab Director/Quality Manager

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Mercury

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Project Number: DD LF

1.05

Project Manager: Eddie Seay

Fax To: (505) 392-6949

1.00

105

85-115

Mercury (Total) by CVAA - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022411 - EPA 7471										
LCS (2022411-BS1)				Prepared &	Analyzed:	: 14-Feb-12				

mg/kg

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Eddie Seay Consulting 601 W. Illinois

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

20

Hobbs NM, 88242

Mercury

Project Number: DD LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

1.00

105

85-115

0.00

Mercury (Total) by CVAA - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022411 - EPA 7471										
LCS Dup (2022411-BSD1)				Prepared &	Analyzed:	14-Feb-12				

mg/kg

1.05

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Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Reported: 24-Feb-12 17:13

Fax To: (505) 392-6949

Mercury (Total) by CVAA - Quality Control

Cardinal Laboratories

		1	Reporting		Spike	Source		%REC		RPD	
1	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021117 - General Prep - Wet Chem				<u> </u>						
Blank (2021117-BLK1)				Prepared &	Analyzed:	11-Feb-12				
Chloride	ND	16.0	mg/kg							
LCS (2021117-BS1)				Prepared &	Analyzed:	11-Feb-12				
Chloride	384	16.0	mg/kg	400		96.0	80-120			
LCS Dup (2021117-BSD1)				Prepared &	Analyzed:	11-Feb-12		_		
Chloride	400	16.0	mg/kg	400		100	80-120	4.08	20	
Duplicate (2021117-DUP1)	Sou	rce: H200307-	-29	Prepared &	Analyzed:	11-Feb-12				
Chloride	16.0	16.0	mg/kg		16.0			0.00	20	-
Matrix Spike (2021117-MS1)	Sou	rce: H200307-	-29	Prepared &	Analyzed:	11-Feb-12				
Chloride	432	16.0	mg/kg	400	16.0	104	80-120			

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Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 24-Feb-12 17:13

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	10001									
Batch 2021130 - General Prep - Organics										
Blank (2021130-BLK1)				Prepared &	Analyzed:	13-Feb-12	<u>. </u>	- <u>-</u> .		
GRO C6-C10	ND	10.0	mg/kg							
DRO > C10-C28	ND	10.0	mg/kg							
EXT DRO > C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg		.,					
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.3	55.5-154			
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102	<i>57.6-158</i>			
LCS (2021130-BS1)				Prepared &	Analyzed:	13-Feb-12	!			
GRO C6-C10	175	10.0	mg/kg	200		87.4	63.5-131			
DRO >C10-C28	184	10.0	mg/kg	200		92.2	52.3-130			
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	62-129			
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.5	55.5-154			
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0		86.0	57.6-158			
LCS Dup (2021130-BSD1)				Prepared &	Analyzed:	13-Feb-12	!			
GRO C6-C10	188	10.0	mg/kg	200		93.9	63.5-131	7.12	13.9	
DRO >C10-C28	197	10.0	mg/kg	200		98.7	52.3-130	6.80	18.1	
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	62-129	6.95	16.2	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0	-	95.6	55.5-154			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	<i>57.6-158</i>			
Matrix Spike (2021130-MS1)	Sou	rce: H200315-	13	Prepared &	Analyzed:	13-Feb-12	!			
GRO C6-C10	182	10.0	mg/kg	200	ND	91.0	46.4-144			
DRO >C10-C28	165	10.0	mg/kg	200	12.1	76.4	33.5-141			
Total TPH C6-C28	347	10.0	mg/kg	400	14.8	83.0	52.7-131			
Surrogate: 1-Chlorooctane	47.2	,	mg/kg	50.0		94.5	55.5-154			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	57.6-158			

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Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Reported:

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

24-Feb-12 17:13

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021130 - General Prep - Organics										
Matrix Spike Dup (2021130-MSD1)	Sour	ce: H200315	-13	Prepared &	Analyzed:	13-Feb-12				
GRO C6-C10	198	10.0	mg/kg	200	ND	98.9	46.4-144	8.24	46.5	
DRO >C10-C28	176	10.0	mg/kg	200	12.1	81.9	33.5-141	6.95	933	
Total TPH C6-C28	374	10.0	mg/kg	400	14.8	89.7	52.7-131	7.71	55.4	
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	55.5-154			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.6	57.6-158			
Batch 2021139 - General Prep - Organics										
Blank (2021139-BLK1)				Prepared &	Analyzed:	09-Feb-12			-	
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.1		mg/kg	50.0		76.2	55.5-154			
Surrogate: 1-Chlorooctadecane	36.5		mg/kg	50.0		73.1	<i>57.6-158</i>			
LCS (2021139-BS1)				Prepared &	Analyzed:	09-Feb-12				
GRO C6-C10	182	10.0	mg/kg	200		91.0	63.5-131	•		
DRO >C10-C28	211	10.0	mg/kg	200		106	52.3-130			
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	62-129			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.1	55.5-154			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	57.6-158			
LCS Dup (2021139-BSD1)				Prepared &	Analyzed:	09-Feb-12				
GRO C6-C10	185	10.0	mg/kg	200		92.3	63.5-131	1.43	13.9	
DRO >C10-C28	216	10.0	mg/kg	200		108	52.3-130	2.22	18.1	
Total TPH C6-C28	401	10.0	mg/kg	400		100	62-129	1.86	16.2	
Surrogate: 1-Chlorooctane	50.9		mg/kg	50.0		102	55.5-154			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.2	57.6-158			

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Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2021139 - General Prep - Organic	s									
Matrix Spike (2021139-MS1)	Sour	ce: H200309-	-01	Prepared &	Analyzed	09-Feb-12	!			
GRO C6-C10	208	20.0	mg/kg	200	35.9	86.0	46.4-144			
DRO >C10-C28	1220	20.0	mg/kg	200	1050	86.7	33.5-141			
Total TPH C6-C28	1430	20.0	mg/kg	400	1090	86.4	52.7-131			
Surrogate: 1-Chlorooctane	50.9		mg/kg	50.0		102	55.5-154			
Surrogate: 1-Chlorooctadecane	58.9		mg/kg	50.0		118	<i>57.6-158</i>			
Matrix Spike Dup (2021139-MSD1)	Sour	ce: H20030 9	-01	Prepared &	Analyzed	09-Feb-12	2			
GRO C6-C10	187	20.0	mg/kg	200	35.9	75.5	46.4-144	13.0	46.5	
DRO >C10-C28	1160	20.0	mg/kg	200	1050	55.6	33.5-141	43.8	933	
Total TPH C6-C28	1350	20.0	mg/kg	400	1090	65.6	52.7-131	27.4	55.4	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.7	55.5-154			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	57.6-158			

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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: D D LANDFARM

Project Number: DD LF Project Manager: Eddie Seay

Reported: 24-Feb-12 17:13

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021405 - Volatiles										
Blank (2021405-BLK1)				Prepared &	Analyzed:	14-Feb-12				
Benzene	ND	0.050	mg/kg	-						
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	64.4-134			
LCS (2021405-BS1)				Prepared &	Analyzed:	14-Feb-12				
Benzene	1.97	0.050	mg/kg	2.00		98.7	65.2-126			
Toluene	2.14	0.050	mg/kg	2.00		107	73.2-126			
Ethylbenzene	2.19	0.050	mg/kg	2.00		109	74.4-131			
Total Xylenes	6.85	0.150	mg/kg	6.00		114	73.5-130			
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	64.4-134			-
LCS Dup (2021405-BSD1)				Prepared &	Analyzed:	14-Feb-12				
Benzene	1.96	0.050	mg/kg	2.00		98.1	65.2-126	0.579	26.9	
Toluene	2.15	0.050	mg/kg	2.00		107	73.2-126	0.343	27.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	74.4-131	0.552	28.5	
Total Xylenes	6.85	0.150	mg/kg	6.00		114	73.5-130	0.0751	27.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	64.4-134			
Matrix Spike (2021405-MS1)	Sour	rce: H200307-	-23	Prepared: 1	14-Feb-12 A	\nalyzed: 1	5-Feb-12			
Benzene	1.90	0.050	mg/kg	2.00	ND	94.9	38.5-146			
Toluene	2.05	0.050	mg/kg	2.00	ND	103	43.8-145			
Ethylbenzene	2.10	0.050	mg/kg	2.00	ND	105	38.7-154			
Total Xylenes	6.52	0.150	mg/kg	6.00	ND	109	46.4-151			
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	64.4-134			
Matrix Spike Dup (2021405-MSD1)	Sour	rce: H200307-	-23	Prepared: 1	14-Feb-12 A	\nalyzed: 1	5-Feb-12			
Benzene	1.79	0.050	mg/kg	2.00	ND	89.3	38.5-146	6.09	51.6	
Toluene	1.92	0.050	mg/kg	2.00	ND	96.1	43.8-145	6.45	56.1	
Ethylbenzene	1.97	0.050	mg/kg	2.00	ND	98.6	38.7-154	6.07	59.8	
Total Xylenes	6.14	0.150	mg/kg	6.00	ND	102	46.4-151	6.00	61.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: D D LANDFARM

Reported: 24-Feb-12 17:13

Project Number: DD LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2021405 - Volatiles

 Matrix Spike Dup (2021405-MSD1)
 Source: H200307-23
 Prepared: 14-Feb-12 Analyzed: 15-Feb-12

 Surrogate: 4-Bromofluorobenzene (PID)
 0.0530
 mg/kg
 0.0500
 106
 64.4-134

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Notes and Definitions

GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
A-01	Target analyte detected in method blank. Reporting limit elevated to account for blank result.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326	FAX (575) 393-24	76																			
Company Name		Sean Co	new	II.W	Q	Dist.			ILL	TO						ANAL	YSIS	RE	QUES	ST		
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(Initials)

Sampler - UPS - Bus - Other:

Cool Intact
Yes TYes
No No



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-247	6				
Company Name		ulling	####BILLSTO		ANALYSIS REQUEST	
Project Manage	Ethin Sun	7	P.O. #:			
Address: 00	1 w Illinois		Company:			1 1 1
city: Hak		Zip: 88242	Attn:			
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	ng those for negligonou and any other cause whatsoever shall be ard nall be liable for incidental or consequental damages, including					

Relinquished By:	Date Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Ellins	Time it to godi slevaon	Fax Result:
Relinquished By:	Date: Received By:	
	Time:	
Delivered By: (Circle One)	Sample Condition CHECKED	ii i
Sampler - UPS - Bus - Other:	30 Cool Intact Pres Pres No No	

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

RE: DD Landfarm (Permit #01-0034)

Semi-Annual Sampling

Mr. Jones:

Find attached the semi-annual sampling for both the treatment zone and vadose zone as required. The treatment zone samples were taken at a depth of four to six inches of surface within the cell lift.

The vadose samples were taken at approximately three to four feet below the cell lift. DD continues to disk and maintain records as permit requires.

Please let me know if you need anything further.

Thanks,

Eddie W. Seay, Agent

Eddin W hear

DD Landfarm

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: DD Landfarm



July 08, 2011

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 07/06/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Cely D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

07/06/2011

Sampling Date:

07/06/2011

Reported:

07/08/2011

Project Name:

D D LANDFARM

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

D D LAND FARM

Sample ID: CELL 1 - T (H101396-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/07/2011	ND	432	108	400	11.8	
TPH 8015M	mg	/kg	Analyze	d By: ab				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2011	ND	209	104	200	6.45	
DRO >C10-C28	70.6	10.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	94.1	% 70-130)				AMALTIC		

Surrogate: 1-Chlorooctadecane

95.7%

70-130

Sample ID: CELL 2 - T (H101396-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2011	ND	432	108	400	11.8	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/08/2011	ND	209	104	200	6.45	
DRO >C10-C28	1100	50.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	111	% 70-130)	•		-,	****		
Surrogate: 1-Chlorooctadecane	119	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



Eddie Seay Consulting

Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

07/06/2011

Reported:

07/08/2011

Project Name:

D D LANDFARM

Project Number: Project Location:

NONE GIVEN D D LAND FARM Sampling Date:

07/06/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL 3 - T (H101396-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/07/2011	ND	432	108	400	11.8	•
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/08/2011	ND	20 9	104	200	6.45	
DRO >C10-C28	460	50.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	102	% 70-130							**************************************
Surrogate: 1-Chlorooctadecane	111	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois

Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

07/06/2011

Sampling Date:

07/06/2011

Reported:

07/08/2011

Sampling Type:

Soil

Project Name:

D D LANDFARM

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

D D LAND FARM

Sample ID: CELL 1 - V (H101396-04)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2011	ND	1.91	95.4	2.00	2.61	
Toluene*	<0.050	0.050	07/07/2011	ND	2.07	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/07/2011	ND	2.15	107	2.00	5.60	
Total Xylenes*	<0.150	0.150	07/07/2011	ND	6.37	106	6.00	5.71	
Surrogate: 4-Bromofluorobenzene (PIL	1069	6 70-130							
Chioride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2011	ND	432	108	400	11.8	
TPH 8015M	mg/	'kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2011	ND	209	104	200	6.45	
DRO >C10-C28	<10.0	10.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	105	% 70-130							
Surrogate: 1-Chlorooctadecane	114	% 70-130	1						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kenne



Eddie Seay Consulting Eddie Seay

601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

07/06/2011

Sampling Date:

07/06/2011

Reported:

07/08/2011

Sampling Type:

Soil

Project Name:

D D LANDFARM

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

D D LAND FARM

Sample ID: CELL 2 - V (H101396-05)

BTEX 80218	mg/	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2011	ND	1.91	95.4	2.00	2.61	
Toluene*	<0.050	0.050	07/07/2011	ND	2.07	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/07/2011	ND	2.15	107	2.00	5.60	
Total Xylenes*	<0.150	0.150	07/07/2011	ND	6.37	106	6.00	5.71	
Surrogate: 4-Bromofluorobenzene (PIL	106	70-130	,			·			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2011	ND	432	108	400	11.8	
TPH 8015M	mg/	'kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2011	ND	209	104	200	6.45	
DRO >C10-C28	<10.0	10.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	103 9	% 70-130	1						
Surrogate: 1-Chlorooctadecane	105 9	% 70-130)						

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*=Accredited Analyte

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Celey D. Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

(505) 392-6949 Fax To:

Received:

07/06/2011

Reported: Project Name: 07/08/2011 D D LANDFARM NONE GIVEN

Project Number: Project Location:

D D LAND FARM

Sampling Date:

07/06/2011

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: CELL 3 - V (H101396-06)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2011	ND	1.91	95.4	2.00	2.61	
Toluene*	<0.050	0.050	07/07/2011	ND	2.07	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	07/07/2011	ND	2.15	107	2.00	5.60	
Total Xylenes*	<0.150	0.150	07/07/2011	ND	6.37	106	6.00	5.71	
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 70-130)						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM	 			· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2011	ND	432	108	400	11.8	
TPH 8015M	mg/	'kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/08/2011	ND	209	104	200	6.45	
DRO >C10-C28	<10.0	10.0	07/08/2011	ND	181	90.3	200	1.75	
Surrogate: 1-Chlorooctane	95.6	% 70-130)		1, 1,1,1				
Surrogate: 1-Chlorooctadecane	96.5	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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alex D. Kenne



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Egyin	Seau (Consu	tler.	<u> </u>	Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Co		BIL	L TO						ANAL	YSIS	REC	QUES	T			
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City: Hehh	<u> </u>	State:	JM Zip:	88	240	At	ttn:	`								İ						· •
Phone #: 2	2231-		2. 69				ddress:	Q														
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FOR LAB USE ONLY	<u> </u>				MATR		PRESE	RV.	SAMPL	ING	1	9	-1			1	- 1	I	-	I	- 1	
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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine

RECEIVED OCD

2011 APR -6 A 12: 49

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

RE: DD Landfarm (Permit #01-0034) Vadose Zone Sampling

Cell 2

Mr. Jones:

At DD Landfarm, we have slightly elevated chlorides in the Vadose Zone on cell 2. We will re-sample as (19-15-36E) requires. The results will be sent as soon as they are received.

If you have any questions, please call.

Thanks,

Eddie W. Seay, Agent

Eldi W.San

DD Landfarm

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: DD Landfarm

A 14

RECEIVED OCD

2011 MAY 25 A 9:53

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

RE: DD Landfarm (Permit #01-0034) Vadose Zone Sampling Cell #2

Mr. Jones:

Find attached the Vadose sampling as (19-15-36E) required. Four random independent samples were taken from the above listed cell. The samples were taken at approximately four feet below the cell treatment area. Sample holes were backfilled with red clay and clean soil.

Should you have any questions or need anything further, please call.

Thanks,

Eddie W. Seay, Agent

DD Landfarm

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: DD Landfarm



May 19, 2011

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (01-0034) VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 04/19/11 15:25.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Analyzed By: CK

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Arsenic 200.8

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

ma/ka dry wt.

Sample ID: CELL 2 - 1 (H100793-01)

Arsenic 200.8	mg,	/kg ary wt.	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	0.604	0.050	05/03/2011	, ND	0.050	100	0.0500	2.75	GAL
Barium, 6010B	mg	/kg dry wt.	Analyze	d By: CK					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium	15.3	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL
Cadmium 200.8	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cadmium	0.0216	0.0050	05/03/2011	ND _.	0.0484	96.8	0.0500	2.85	GAL
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77	
Chromium, 6010B	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	3.51	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper 200.8	mg,	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	0.699	0.0100	05/03/2011	ND ·	0.0471	94.2	0.0500	4.77	GAL
Cyanide 335.4	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	· BS	% Recovery	True Value QC	RPD	Qualifier
Cyanide (total)	<0.0400	0.0400	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL
Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W, Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Sample Received By:

Project Number:

DD LANDFARM

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 1 (H100793-01)

Fluoride, 4500F C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.265	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	2900	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
.ead	1.67	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7	mg	/kg dry wt.	Analyze	d By: CK	•				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	32.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mer <i>c</i> ury, 7471A	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2	mg,	/kg	Analyze	d By: CK			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	0.744	0.040	05/05/2011	ND	0.101	. 101	0.100	5.77	GAL
Nitrite as N 353.2	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd.	Qualifier
Nitrite as N	0.208	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey & Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011

Sampling Condition:

Cool & Intact

DD LANDFARM (01-0034) VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number:

DD LANDFARM

Project Location: E. EUNICE HWY 176

Sample ID: CELL 2 - 1 (H100793-01)

PAH 8270C	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66	>
Phenanthrene	<0.040	0.040	05/14/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/14/2011	ND	0.010	95.1	0.0100	6.40	
Surrogate: Nitrobenzene-d5	91.4	% 35-114	1						
Surrogate: 2-Fluorobiphenyl	128 9	% 43-110	٠ .						

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 1 (H100793-01)

PAH 8270C		mg	/kg	Analyze	d By: CK				•	
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: T	Terphenyl-dl4	33.2	% 33-141							
PCB 8082		ug/	kg	Analyze	d By: CK					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PCB 1016		<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1232		<10.0	10.0	04/28/2011	ND		•			SUB-SS
PCB 1242		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1248		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1254		<10.0	10.0	04/28/2011	ND				•	SUB-SS
PCB 1260		<10.0	10.0	04/28/2011	ND.	7.00	70.0	10.0	41.2	SUB-SS
Surrogate: T	Tetrachloro-meta-xylene	71.7	% 35-140	···						
pH ,		ρН	Units	Analyze	d By: HM		•			·
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН		8.47	0.100	04/29/2011		7.08	101	7.00	0.706	
Phenols, 420	0.1	mg,	kg dry wt.	Analyze	d By: CK					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Phenols		<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL
Selenium 20	00.8	mg,	kg dry wt.	Analyze	d By: CK					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium		<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celey D. Kune



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number:

DD LANDFARM

Project Location: E. EUNICE HWY 176

Sample ID: CELL 2 - 1 (H100793-01)

Silver 200.8	mg/	kg dry wt.	Analyze	d By: CK				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0197	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
трн 8015М	mg/	kg	Analyze	d By: AB		***		_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane	94.4	% 70-130)						
Surrogate: 1-Chlorooctadecane	95.1	% 70-130	•						
Uranium 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Uranium	0.0753	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 1 (H100793-01)

WQCC Volatiles 8260	mg/k	(g	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24	•
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62	
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87	
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93	
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34	
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84	
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75	
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00	
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54	
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99	
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35	•
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75	
Surrogate: Dibromofluoromethane	93.3 %	6 80-120	-						-
Surrogate: Toluene-d8	111 %	80-120							
Surrogate: 4-Bromofluorobenzene	103 %	80-120							
Zinc 200.7	mg/k	g dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	6.2	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Soil

05/19/2011

Sampling Type:

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE DD LANDFARM

Sampling Condition: Sample Received By: Cool & Intact

Project Number: Project Location:

E. EUNICE HWY 176

Jodi Henson

Sample ID: CELL 2 - 2 (H100793-02)

Arsenic 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	0.586	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL
Barium, 6010B	mg/	kg dry wt.	Analyze	d By: CK	_				
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium	14.7	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL
Cadmium 200.8	mg/	kg dry wt.	Analyze	d By: CK			****		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cadmium	0.0249	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM	_		· 		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/20/2011	. ND	416	104	400	3.77	
Chromium, 6010B	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	2.97	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	0.697	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL
Cyanide 335.4	mg/	kg	Analyze	d By: CK				····	
Analyte	· Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL
Fluoride, 4500F C	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

DD LANDFARM (01-0034) VADOSE ZONE

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 2 (H100793-02)

Fluoride, 4500F C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.412	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg.	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
[ron	2290	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Lead	1.75	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	28.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mercury, 7471A	mg	mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2	mg,	/kg	Analyze	d By: CK			-, ,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	0.515	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2	mg,	/kg	Analyze	d By: CK					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	0.147	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 2 (H100793-02)

PAH 8270C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND	,				

2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND	,			
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND				
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66
Phenanthrene	<0.040	0.040	05/14/2011	, ND	0.010	98.1	0.0100	1.52
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92
Carbazole	<0.040	0.040	05/14/2011	ND .	0.010	100	0.0100	1.29
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07
Benzo[b]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80
Benzo[k]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302
Benzo[g,h,i]perylene	<0.040	0.040	05/14/2011	ND	0.010	95.1	0.0100	6.40

Surrogate: Nitrobenzene-d5 94.8% 35-114
Surrogate: 2-Fluorobiphenyl 137% 43-116

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Analyzed By: CK

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

DAM 9270C

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 2 (H100793-02)

PAH 82700	<u> </u>	mg	/kg	Analyze	d By: CK					
	Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate:	Terphenyl-dl4	41.0	% 33-141							
PCB 8082		` ug/	kg	Analyze	d By: CK					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PCB 1016		<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1232		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1242		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1248		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1254		<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1260		<10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-SS
Surrogate:	Tetrachloro-meta-xylene	87.4	% 35-140							
pH		pH	Units	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD -	Qualifier
pН		8.66	0.100	04/29/2011		7.08	101	7.00	0.706	
Phenols, 42	20.1	mg,	/kg dry wt.	Analyze	d By: CK				<u> </u>	
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Phenols		<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL
Selenium 2	200.8	mg,	kg dry wt.	Analyze	d By: CK					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium		<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242

Fax To:

(505) 392-6949

Analyzed By: CV

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Cilvar 200 9

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Number: Project Location:

E. EUNICE HWY 176

ma/ka dni wt

Sample ID: CELL 2 - 2 (H100793-02)

Silver 200.8	mg,	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0171	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
TPH`8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	· ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane	97.3	% 70-130)				•		
Surrogate: 1-Chlorooctadecane	99.2	% 70-130)					•	
Uranium 200.8	mg,	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Uranium	0.0849	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

(505) 392-6949

Fax To:

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

DD LANDFARM

Sample Received By:

Jodi Henson

Project Number:

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 2 (H100793-02)

WQCC Volatiles 8260	mg/l	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24	
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62	
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87	
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93	
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	, 114	1.00	7.34	
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84	
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75	
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00	
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54	
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99	
1,1,2,2-Tetrachioroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35	
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75	
Surrogate: Dibromofluoromethane	87.3 %	6 80-120							
Surrogate: Toluene-d8	105 %	6 80-120							
Surrogate: 4-Bromofluorobenzene	95.8 %	6 80-120				•			
Zinc 200.7	mg/l	g dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	5.0	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil .

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

Arsenic 200.8	mg/	kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	0.663	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL
Barium, 6010B	mg/	kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium	18.4	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL
Cadmium 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cadmium .	0.0414	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77	
Chromium, 6010B	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	2.49	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	0.958	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL
Cyanide 335.4	mg/	kg	Analyze	d By: CK				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL
Fluoride, 4500F C	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celeg D. Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

DD LANDFARM

Sample Received By:

Jodi Henson

Project Number: Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

% Recovery			
	True Value QC	RPD	Qualifier
0 95.0	1.00	0.00	GAL
		···	
% Recovery	True Value QC	RPD	Qualifier
101	4.00	4.37	GAL
% Recovery	True Value QC	RPD	Qualifier
99.8	0.0500	0.402	GAL
% Recovery	True Value QC	RPD	Qualifier
99.5	2.00	10.5	GAL
	·=···		
% Recovery	True Value QC	RPD	Qualifier
2 105	0.00200	0.00	GAL
% Recovery	True Value QC	RPD	Qualifier
1 101	0.100	5.77	GAL
% Recovery	True Value QC	RPD	Qualifier
7 107	0.100	0.00	GAL
% Recovery	True Value QC	RPD	Qualifier
5	% Recovery 101 % Recovery 99.8 % Recovery 99.5 % Recovery 105 % Recovery 101	% Recovery True Value QC 101 4.00 % Recovery True Value QC 99.8 0.0500 % Recovery True Value QC 99.5 2.00 % Recovery True Value QC 105 0.00200 % Recovery True Value QC 101 0.100 % Recovery True Value QC 107 0.100	% Recovery True Value QC RPD 101 4.00 4.37 % Recovery True Value QC RPD 99.8 0.0500 0.402 % Recovery True Value QC RPD 99.5 2.00 10.5 % Recovery True Value QC RPD 105 0.00200 0.00 % Recovery True Value QC RPD 101 0.100 5.77 % Recovery True Value QC RPD 107 0.100 0.00

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Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

PAH 8270C

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

mg/kg

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/14/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92	•
Carbazole	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07	•
Benzo[b]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08	•
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302	

Analyzed By: CK

Surrogate: Nitrobenzene-d5 105 % 35-114
Surrogate: 2-Fluorobiphenyl 144 % 43-116

<0.040

0.040

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Benzo[g,h,i]perylene

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6.40

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ND

95.1

0.0100

0.010

05/14/2011

Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number:

DD LANDFARM

Project Location: E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

РАН 8270С	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	29.5	% 33-141	•				÷		
PCB 8082	ug/	'kg	Analyze	ed By: CK	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1232	<10.0	10.0	04/28/2011	ND			ė		SUB-SS
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1260	<10.0	10.0	04/28/2011	, ND	7.00	70.0	10.0	41.2	SUB-SS
Surrogate: Tetrachloro-meta-xylene	113	% 35-140	ſ						
pH	pН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.55	0.100	04/29/2011		7.08	101	7.00	0.706	
Phenols, 420.1	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL
Selenium 200.8	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	

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Celeg & Kreens



Eddie Seay Consulting Eddie Seay · 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

Silver 200.8	mg/	kg dry wt.	Analyze	d By: CK		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0176	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS _.	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
TPH 8015M	mg/kg A		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane	83.3	% 70-130)						
Surrogate: 1-Chlorooctadecane	80.2	% 70-130	· ·						
Uranium 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Uranium /	0.109	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Celuy D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 3 (H100793-03)

WQCC Volatiles 8260	mg/kg		Analyze	d By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24		
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62		
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87		
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93		
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34		
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84		
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75		
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00		
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54		
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99		
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35		
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75		
Surrogate: Dibromofluoromethane	90.1 9	% 80-120								
Surrogate: Toluene-d8	109 %	6 80-120	1							
Surrogate: 4-Bromofluorobenzene	99.29	% 80-120								
Zinc 200.7	mg/	kg dry wt.	Analyze	d By: CK		4.5				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Zinc	7.0	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL	

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Celey & Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location: DD LANDFARM E. EUNICE HWY 176

Sample Received By:

Jodi Henson

Sample ID: CELL 2 - 4 (H100793-04)

Arsenic 200.8	mg,	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	0.690	0.050	05/03/2011	ND:	0.050	100	0.0500	2.75	GAL
Barium, 6010B	mg,	kg dry wt.	Analyze	d By: CK	· · · · · · · · · · · · · · · · · · ·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium	14.2	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL
Cadmium 200.8	mg	kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cadmium	0.0321	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL
Chloride, SM4500Cl-B	mg,	kg	Analyzed By: HM						
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77	
Chromium, 6010B	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	3.36	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	. % Recovery	True Value QC	RPD	Qualifier
Copper	0.750	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL
Cyanide 335.4	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL
Fluoride, 4500F C	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keine



Eddie Seay Consulting **Eddie Seay** 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Soil

05/19/2011

Sampling Type:

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 4 (H100793-04)

Fluoride, 4500F C	500F C mg/kg Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.641	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	2570	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8	mg,	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Lead	2.40	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7	mg,	/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	30.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mercury, 7471A	mg,	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	1.21	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	0.213	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Soil

05/19/2011

Sampling Type:

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 4 (H100793-04)

PAH 8270C	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene .	<0.040	0.040	05/16/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/16/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/16/2011	ND		,			
Acenaphthylene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/16/2011	ND	0.010	105 ·	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/16/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/16/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/16/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/16/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/16/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/16/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/16/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/16/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/16/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/16/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/16/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/16/2011	ND	0.010	95.1	0.0100	6.40	
Surrogate: Nitrobenzene-d5	88.5	% 35-114	!						

Surrogate: 2-Fluorobiphenyl 115 % 43-116

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Celey D. Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

DD LANDFARM

Sample Received By:

Project Number:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 4 (H100793-04)

PAH 8270C	mg	/kg	Analyze	d By: CK		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Surrogate: Terphenyl-dl4	27.5	% 33-141	i						
PCB 8082	ug/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-S
PCB 1232	<10.0	10.0	04/28/2011	ND _.					SUB-S
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-S
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-S
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-S
PCB 1260	. <10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-S
Surrogate: Tetrachloro-meta-xylene	96.1	% 35-140)						
pH	pH	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
pH	8.30	0.100	04/29/2011		7.08	101	7.00	0.706	
Phenols, 420.1	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL
Selenium 200.8	mg	/kg dry wt.	Analyze	d By: CK			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

Sampling Type:

Project Name:

05/19/2011

Soil

DD LANDFARM (01-0034) VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

DD LANDFARM

Sample Received By:

Jodi Henson

Project Location:

E. EUNICE HWY 176

Sample ID: CELL 2 - 4 (H100793-04)

Silver 200.8	mg/	kg dry wt.	Analyze	d By: CK		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Silver	0.0175	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
TPH 8015M	mg/	kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane	101 9	% 70-130					·		
Surrogate: 1-Chlorooctadecane	103 9	% 70-130							
Uranium 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Uranium	0.0822	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Analyzed By: CMS

Received:

04/19/2011

Sampling Date:

04/19/2011

Reported:

WOCC Volatiles 8260

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

DD LANDFARM (01-0034) VADOSE ZONE DD LANDFARM

Sample Received By:

Jodi Henson

Project Number: Project Location:

E. EUNICE HWY 176

ma/ka

Sample ID: CELL 2 - 4 (H100793-04)

WQCC Volatiles 8280	mg/	kg	Allalyze	u by. CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24	
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62	
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87	
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93	
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34	
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84	
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75	
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00	
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54	
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99	
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35	
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75	
Surrogate: Dibromofluoromethane	86.79	% 80-120							
Surrogate: Toluene-d8	104 %	6 80-120							
Surrogate: 4-Bromofluorobenzene	91.69	% 80-120				•	•		
Zinc 200.7	mg/l	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	6.1	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL ·

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Notes and Definitions

SUB-SS Analysis subcontracted to SunStar Laboratories, Inc.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

GAL Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey & Keens



ANALYTICAL RESULTS:FOR EDDIE:SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM:88240

Receiving Date: 04/19/11 Reporting Date: 05/10/11

Project Number: DD LANDFARM

Project Name: DD/LANDFARM (01-0034) VADOSE ZONE

Project Location: E. EUNICE HWY-176 Laboratory Number: H100793-01

Sample ID: CELL 2-1

Sampling Date: 04/19/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3°C

Sample Received By: JH

Analysis Date: 04/26/11 Analysis Time: 09:06

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/2s)	Änalysis Results Bq/gm	Analysis Error (+/- 2s)	Änalysis Test Method
Ra - 226	<0.96	N/A	<0:04	l N/A	EPA 901.1M
Ra - 228	<0.37	N/A	<0.01	N/A	EPA/901/1M
	Parameter and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the		<u> </u>		
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Votes:					

Analyses subcontracted to Xenco Laboratories.

Chemist

H100793NORM EDDIE

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Page 27 of 34



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. IELINOIS HOBBS, NM 88240

Receiving Date: 04/19/11 Reporting Date: 05/10/11

Project Number: DD LANDFARM

Project Name: DD LANDFARM (01-0034) VADOSE ZONE

Project Location: E. EUNICE HWY 176 Laboratory Number: H100793-02

Sample ID: CELL 2-2

Sampling Date: 04/19/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3°C

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 09:36

Analysis Description	Analysis Results ⊲pCi/gm	Analysis Error (+/-:2s)	Analysis Results Bq/gm	Analysis Error (+/∹2s)	Analysis Test Method
Ra - 226	<0.66	N/A	<0.02	i N/A	EPA:901.1M
Ra - 228	<0.25	N/A	<0.01	N/A	EPA 901:1M
	a mily atampananany in distribution in graphic and province and party consistency.				
		1			an and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
Notes:					
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Analyses subcontracted to Xenco Laboratories.

H100793NORM EDDIE

PLEASE NOTE: Liability and Damages. Cardinal's tiability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal, be tlable for incidental or consequential damages, including, without limitation, business Interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be regroduced except in full with written approval of Cardinal Laboratories.

Page 28 of 34



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240

Receiving Date: 04/19/11 Reporting Date: 05/10/11

Project Number: DD LANDFARM

Project Name: DD LANDFARM (01-0034) VADOSE ZONE

Project Location: E. EUNICE HWY 176 Laboratory Number: H100793-03

Sample ID: CELL 2-3

Sampling Date: 04/19/11 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3°C

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 09:58

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bg/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.94	N/A	<0.03	N/A	EPA 901:1M
Ra - 228	<0.45	N/A	<0.02	N/A	EPA 901:1M
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Analyses subcontracted to Xenco Laboratories.

Chemist

H100793NORM EDDIE



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN; EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240

Receiving Date: 04/19/11 Reporting Date: 05/10/11

Project Number: DD LANDFARM

Project Name: DD LANDFARM (01-0034) VADOSE ZONE

Project Location: E, EUNICE HWY 176 Laboratory Number: H100793-04

Sample ID: CELL 2-4

Sampling Date: 04/19/11 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3°C

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 10:23

pCi/gm	(+/- 2s)	Results Bq/gm	Error (+/- 2s)	Test Method
<0.71	,N/A	<0.03	N/A	EPA 901.1M
<0.35	,N/A	<0.01	N/A	EPA 901.1M
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Analyses subcontracted to Xenco Laboratories:

Chemist

H100793NORM EDDIE



Notes:

Comments:

- 1. Soil and Sludge analysis results are reported on a wet basis or as received basis unless otherwise indicated.
- The data in this report are within the limits of uncertainty specified in the reference method, unless otherwise specified.
- 3. Modified analysis procedures are procedures that are modified to meet certain specifications.

 An example would be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4. Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5. Total Activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring decay chains and other prominent radioactive isotopes. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of isotopes that emit solely alpha or beta radiation.
- Ra#228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma. Spectroscopy only)
- U-238 is determined via secular equilibrium with its daughter. Thorium 234. (Gamma Spectroscopy only)
- All Gamma Spectroscopy was performed using high purity germanium detectors (HPGE).

Method References:

- 1. EPA 600/4-80-032, Prescribed Procedures for the Measurement of Radioactivity in Drinking Water, August 1980.
- 2. Standard Methods for the Examination of Water and Waste Water, 18th, 1992.
- 3. EPA SW-846, Test Methods for Evaluating Solid Wastes, Third Edition (9/86). (Updated through 1995)
- 4. EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- HASL 300.

Definitions:

1.	BDL	Analyte not detected because the value was below the detection limit.
2.	ND	Not detected above the detection limit.
3.	Detection Limit	The minimum amount of analyte that can be detected utilizing the specific analysis
4:	B	Method Blank.
5.	D	Method Duplicate.
6.	MS	Matrix Spike.
7.	S	Spike.
8.	RS	Reference Spike.
9.	SC	Subcontracted to qualified laboratory.
10.	NR	Not Referenced.
H.	N/A.	Not applicable.
12.	MDA	Minimum detectable activity.

CARDINAL Laboratories

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2011 FEB -23P 12: 55

NMOCD Environmental ATTN: Edward Hansen 1220 South St. Francis Dr. Santa Fe, NM 87505

RE: DD Landfarm (Permit #01-0034)

Semi-Annual Sampling

Mr. Hansen:

Find attached the semi-annual sampling for both the Treatment Zone and Vadose Zone as required. The Treatment Zone samples were taken at a depth of approximately six to eight inches of surface within the cell lift. The Vadose samples were taken at approximately four feet below the cell lift.

Should you need anything further or have any questions, please call.

Thanks,

Eddie W. Seay, Agent Eddie Seay Consulting

de Who

601 W. Illinois

Hobbs, NM 88242

575-392-2236

seay04@leaco.net



January 25, 2011

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 01/19/11 8:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

01/19/2011

Reported:

01/25/2011

Project Name: Project Number: D D LANDFARM NONE GIVEN

Project Location:

D D LAND FARM

Sampling Date:

01/18/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: CELL - 1 T (H100127-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	627	10.0	01/20/2011	ND	235	94.2	250	2.87	

Surrogate: 1-Chlorooctane

89.0 %

70-130

Surrogate: 1-Chlorooctadecane

87.7%

70-130

Sample ID: CELL - 2 T (H100127-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/20/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	203	50.0	01/20/2011	ND	235	94.2	250	2.87	
Surrogate: 1-Chlorooctane	94.3	% 70-130							
Surrogate: 1-Chlorooctadecane	103	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

01/19/2011

Reported:

01/25/2011

Project Name:

D D LANDFARM

Project Number: Project Location:

NONE GIVEN

D D LAND FARM

Sampling Date:

01/18/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL - 3 T (H100127-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/20/2011	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	415	10.0	01/20/2011	ND	235	94.2	250	2.87	
Surrogate: 1-Chlorooctane	82.9	% 70-130)						
Surrogate: 1-Chlorooctadecane	84.5	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Lebility and Comages. Cardinal's labelity and clern'ts exclusive remedy for any cleim arising, whether bessed in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be liable for incidental or consequential damages, believed by the contraction, bushess interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries, affiliations or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cleim is bessed upon any of the above stated receives or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with within approval of Cardinal Laboratories.



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

01/19/2011

Reported:

01/25/2011

Project Name:

D D LANDFARM

Project Number: Project Location:

NONE GIVEN
D D LAND FARM

Sampling Date:

01/18/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL - 1 V (H100127-04)

BTEX 8021B	mg/	<u>L</u>	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2011	ND	2.37	118	2.00	19.9	
Toluene*	<0.050	0.050	01/24/2011	ND	2.34	117	2.00	18.5	
Ethylbenzene*	<0.050	0.050	01/24/2011	ND	2.33	117	2.00	16.3	
Total Xylenes*	<0.150	0.150	01/24/2011	ND	6.97	116	6.00	16.0	
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 80-120	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/20/2011	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	<10.0	10.0	01/20/2011	ND	235	94.2	250	2.87	
Surrogate: 1-Chlorooctane	79.3	% 70-130)		······································				
Surrogate: 1-Chlorooctadecane	79.6	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

01/19/2011

Reported:

01/25/2011

Project Name:

D D LANDFARM

Project Number: Project Location:

NONE GIVEN
D D LAND FARM

Sampling Date:

01/18/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL - 2 V (H100127-05)

BTEX 8260B	mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	105 9	% 80-120							
Surrogate: Toluene-d8	105	% 80-120							
Surrogate: 4-Bromofluorobenzene	105	% 80-120							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/20/2011	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	<10.0	10.0	01/20/2011	ND	235	94.2	250	2.87	
Surrogate: 1-Chlorooctane	90.0	% 70-130			*******				
Surrogate: 1-Chlorooctadecane	<i>88.7</i>	% 70-130							

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Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

01/19/2011

Reported:

01/25/2011

Project Name: Project Number:

D D LANDFARM

Project Location:

NONE GIVEN
D D LAND FARM

Sampling Date:

01/18/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: CELL - 3 V (H100127-06)

BTEX 8260B	mg/	kg	Analyz	ed By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	108 9	% 80-120							
Surrogate: Toluene-d8	106 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	106 9	% 80-120							
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2011	· ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyz	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2011	ND	242	96.8	250	3.42	
DRO >C10-C28	27.0	10.0	01/20/2011	ND	235	94.2	250	2.87	
Surrogate: 1-Chlorooctane	105 9	% 70-130					•		
Surrogate: 1-Chlorooctadecane	104 9	% 70-130							

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Z-01

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any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or corresponding demogra, including, without limitation, bushess interruptions, loss of use, or loss of profits incurred by client, its subskillaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Company Name	Eddie Son Co	MSAI AR	BILLTO	BILL TO ANALYSIS REQUEST				
Project Manage		Mas on the	P.O. #:					
Address: 100	1 Ly Illiniais		Company:					
City: 1300		Zip: 84242	Attn:					
Phone #: A	7236 Fax#: 2.	1.949	Address:					
Project #: D	Land town Project Owne		City:					
Project Name: 3		7 7 7	State: Zip.	10	.			
Project Location	3 Leas 176 East of E	unia	Phone #:					
Sampler Name:	Eddin Soan		Fax #:		/ 쉐			
FOR LABUSE ONLY		MATRIX	PRESERV SAMPLII	NG				
		(C) PAMB ATER IER		T CX	' કુ			
Lab I.D.	Comple I D	VATE VTER		19 4	3			
Lab I.D.	Sample I.D.	B OF STAND	R :	181				
		(G)RAB OR (C.) AT # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: OTHER: OTHER:	TIME CL				
H100127-1	$C_{2} = 0$) # G S W O W	J 1118	9:15				
2	C. 08 - 2 T		1) 1/1	9:40 ,				
3	Con - 3 T	JII	1 3 114	10:30	J			
닉	Cell - IV	31		13:10 7 7	<u> </u>			
5	Cer - 2V	V V V V	1118	3:30 1/1				
6	cell - 3V	0 1 0	- V 1/18	3:50 0 0				
			i 					
	nd Damages, Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be							
service. In no event shall C	ardmal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	g without limitation, business interruptions.	loss of use, or loss of profits incurred by c	llent, its subsidiaries,	`			
Relinquished B		Received By:		Phone Result: ☐ Yes Fax Result: ☐ Yes		i		
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Relinguished B	y: Date:	Received By:		390.2	1454	İ		
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Delivered By	: (Circle One)	Sample Condi	tion CHECKED BY:			İ		
1	- Bus - Other:	2.5 Cool Intact	(Initials)					
		COLUMN NO NO N	o : YY					