NM1 - \_\_\_12\_\_\_

### MONITORING REPORT

YEAR(S):

2011 - 2012\_\_\_

### C & C LANDFARM NM-01-0012

### **BI-ANNUAL SAMPLING**

**DECEMBER 2012** 

RECENT OOD

NMOCD Environmental ATTN: Brad Jones 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm (NM-01-0012)
Bi-Annual Sampling & 5 yr. Monitoring
Cell G

Mr. Jones:

Find enclosed a copy of the bi-annual sampling for C & C Landfarm, Treatment zone samples, Vadose zone sampling and one cell for the five year monitoring.

All samples were taken and analyzed according to the guidelines set forth in Rule 36.

C & C continues to operate and maintain the landfarm as permit requires.

Should you have any questions or need additional information, please call.

Thanks,

Eddie W. Seay, Agent Eddie Seay Consulting

Eddin w Sean

601 W. Illinois Hobbs, NM 88242

575-392-2236

seay 04@leaco.net

cc: C & C Landfarm



January 02, 2013

Eddie Seay

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 12/27/12 10:05.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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. Keena

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

(505) 392-6949 Fax To:

Received:

12/27/2012

01/02/2013

Sampling Date:

12/26/2012

Reported:

Sampling Type:

Soil

Project Name:

C & C LANDFARM

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL A - T (H203092-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP		····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	128	16.0	12/31/2012	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	125	10.0	12/29/2012	ND	198	99.0	200	13.6	

Surrogate: 1-Chlorooctane

85.5 %

65.2-140

Surrogate: 1-Chlorooctadecane

106%

94.2%

63.6-154

63.6-154

### Sample ID: CELL B - T (H203092-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/31/2012	ND	432	108	400	7.69	
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	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	<10.0	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	87.8	% 65.2-14	0						

### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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:

12/27/2012

Reported:

01/02/2013

Project Name: Project Number: C & C LANDFARM NONE GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

12/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL C - T (H203092-03)

Chloride,	SM4500CFB
-----------	-----------

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP			<del></del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16,0	12/31/2012	ND	432	108	400	11.8	
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	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	<10.0	10.0	12/29/2012	ND	198	99.0	200	13.6	

Surrogate: 1-Chlorooctane

78.8 %

65.2-140

Surrogate: 1-Chlorooctadecane

84.6%

63.6-154

### Sample ID: CELL D - T (H203092-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	128	16.0	12/31/2012	ND	432	108	400	11.8	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	55.4	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	87.6	% 65.2-14	10						

Surrogate: 1-Chlorooctadecane 99.8% 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keens Celey D. Keene, Lab Director/Quality Manager



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

Fax To: (505) 392-6949

Received: Reported: 12/27/2012 01/02/2013

C & C LANDFARM NONE GIVEN

Project Number: Project Location:

Project Name:

MONUMENT, NM

83.8 %

63.6-154

Sampling Date:

12/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL E - T (H203092-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/31/2012	ND	432	108	400	11.8	
TPH 8015M	mg	/kg	Analyze	d By: MS	<u>,</u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	<10.0	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	81.0	% 65.2-14	0						

### Sample ID: CELL F - T (H203092-06)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/31/2012	ND	432	108	400	11.8	
TPH 8015M	mg	'kg	Analyze	d By: MS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	<10.0	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	87.7	% 65.2-14	0	-,					
Surrogate: 1-Chlorooctadecane	94.0	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



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

Fax To: (505) 392-6949

Received:

12/27/2012

01/02/2013

Sampling Date: Sampling Type: 12/26/2012

Reported:

Soil

Project Name:

C & C LANDFARM NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

MONUMENT, NM

Sample ID: CELL G - T (H203092-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
<b>Analyt</b> e	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/31/2012	ND	432	108	400	11.8	
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	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	195	10.0	12/29/2012	ND	198	99.0	200	13.6	

Surrogate: 1-Chlorooctane

81.0%

65.2-140

Surrogate: 1-Chlorooctadecane

94.9%

101 %

63.6-154

63.6-154

### Sample ID: CELL H - T (H203092-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	12/31/2012	ND	432	108	400	11.8	
TPH 8015M	mg	/kg	Analyze	d By: MS	.,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
		10.0	12/29/2012	ND	198	99.0	200	13.6	

### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey & Keens



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

Fax To: (505) 392-6949

Received: Reported: 12/27/2012

01/02/2013

Project Name: Project Number: C & C LANDFARM NONE GIVEN

MONUMENT, NM

Sampling Date:

12/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Jodi Henson

Sample Received By:

Project Location:

### Sample ID: CELL I - T (H203092-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP	<del> </del>			<del></del>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/31/2012	ND	432	108	400	11.8	
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	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	51.1	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	89.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

### Sample ID: CELL J - T (H203092-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/31/2012	ND	432	108	400	11.8	
TPH 8015M	mg,	/kg	Analyze	d By: MS		<del> </del>			· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	120	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	83.4	% 65.2-14	0						,
Surrogate: 1-Chlorooctadecane	94.4	% 63.6-15	4						

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Celey D. Keine



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

Fax To: (505) 392-6949

Received:

12/27/2012

Reported:

01/02/2013

Project Name: Project Number: C & C LANDFARM NONE GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

g Date:

12/26/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

### Sample ID: CELL K - T (H203092-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/31/2012	ND	432	108	400	11.8	
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	12/29/2012	ND	188	94.0	200	10.0	
			12/29/2012	ND	198	99.0	200	13.6	

Surrogate: 1-Chlorooctane 89.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

### Sample ID: CELL L - T (H203092-12)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/31/2012	ND	432	108	400	11.8	
PH 8015M mg/kg		Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>B</b> S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	28.5	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	88.1	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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\*=Accredited Analyte

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Celey & Kuno



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

Fax To: (505) 392-6949

Received: Reported: 12/27/2012

01/02/2013

Project Name: Project Number: C & C LANDFARM NONE GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

12/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

### Sample ID: CELL M - T (H203092-13)

Chloride, SM4500Cl-B	mg	/kg	Analyza	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/31/2012	ND	432	108	400	11.8	
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	12/29/2012	ND	188	94.0	200	10.0	
DRO >C10-C28	45.9	10.0	12/29/2012	ND	198	99.0	200	13.6	
Surrogate: 1-Chlorooctane	80.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.5	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardinal's liability and clean's exclusive remedy for any cleim arising, whether pased in contract or tort, shall be limited to the amount paid by cleint for analyses. All cleims, including those for negligance and any other cause whistower shall be deemed well-ded in witting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for including within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for including within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for including within thirty (30) days after completion of the applicable service. In no event shall cardinal be liable for including within thirty (30) days after completion of the applicable service. In no event shall cardinal be liable for including those for negligance and changes, including those for negligance and cardinal changes, including those for negligance and changes, including those for negligance and shall cardinal changes and shall cardinal changes

Celey & Keine



### **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

PLEASE NOTE: Liability and Damages. Cerdinal's liability and clean's exclusive remedy for any cleam arising, whether passed in contract or tort, shall be limited to the amount paid by cleart for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walked unless made in writing and received by Cerdinal within thirty (30) days after completion of the applicable service. In no event shall Controlled for incidental or consequential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by cleart, its substitatives, affiliation or successors arising out of or related to the performance of the services nersurder by Cerdinal, 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 approved of Cerdinal Laboratories.

Celeg & Keens

### Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: E	Project Manager: E Address: Loo I	City: Holling	me: cation	1	Lab I.D.	H2025.92	<i>د</i> د ۱۸۰۰	*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13	<b>ن</b> ر	1300 T	<u>5</u>	TEAST WOLE: Librilly and Demigrs. Card his Finking analyses. All claims activiting hose for negrigance and any marking. In the event that Cardinal be liable for increantal and any marking.	Relinquished By:	Delivered By: (Circle One) Sampler - UPS - Bus - Other	



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST																						No Add'I Phone #:	□ NO Add'l Fax #:		
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B/LL 70	P.O. #:	Company:	Attn:	Address:\\	City: O	State: Zhe	Phone #:	Fax #:	PRESERV. SAMPLING		10 :a:	CO0	OTHI OTHI	_	126 (	1 92.721				s Jain at sing whether based in contract or Ent, shall be limited to the amount paid by the client for the	eceived by Cardinal within 30 days after com is of use, or loss of profits incurred by client.	based upon any of the above stated reasons	COLORS RE	; H	CHECKED BY:
(lows it tains	D		NA Zip: SYDU2	Fax#: 2. 6949	3	(2000 - 1	543	Janes Lanon	MATRIX	ы S	F (CE)	NTAI UND!	SENE SOIL MAS. GEO # CO	<b>\</b>		2				ve remedy for any claim at sing whether based in contract or		hereunder by Cardinal, regardless of whether such claim is in	55.0		Sample Condition Cool Intagt Cool Intagt No. No. No. No. No.
: £ 11 co	17,775	No Allinois	State:	22.31.	1	of lasts	12				Sample I D	Sample I.D.		G00 K- 1	1 - 7 00 3	Cae M - 1		A		PLEASE NOTE: Limbility and Damages. Cardinal's liability and chent's exclusive remedy for an	uding those for negligence and any other cause whatsi If Cardinal be liable for incidental or consequental dem	out of or related to the performance	A A	ime.	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Company Name: 🗲	Project Manager:	Address: IS)	City: Hable	Phone #: 2.	Project #: 65	Project Name: CFC	Project Location:	Sampler Namo:	FOR LAB USE ONLY		44	Lab 1.5.	19.29.92		7.	81				EASE NOTE: Limbility	alyses. All claims inck. wice. In no eventshall	Actional shed By	Relinquished By		Delivered E Sampler - UP

Page 11 of 11



January 03, 2013

Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242

RE: C & C LANDFARM - VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 12/28/12 14:55.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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 Seav 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

MONUMENT, NM

Sample Received By:

Jodi Henson

### Sample ID: CELL A (H203109-01)

BTEX 80218	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1189	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.7 <del>49</del>	
Surrogate: 1-Chlorooctane	77.5 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.09	63.6-15	4						

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\*=Accredited Analyte

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Celey & Keens-



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL B (H203109-02)

BTEX 80218	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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1189	6 89.4-120	5						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	82.5 % 65.2-140		)						
Surrogate: 1-Chlorooctadecane	91.09	63.6-154	1						

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Celeg to Keens-



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL C (H203109-03)

BTEX 8021B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1179	6 89.4-120	5						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.7 <del>49</del>	
Surrogate: 1-Chlorooctane	78,79	6 65.2-140	)					,	
Surrogate: 1-Chlorooctadecane	83.09	6 63.6-154	ı						

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Celey & Kuns



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

MONUMENT, NM

Sample ID: CELL D (H203109-04)

BTEX 8021B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1179	% 89. <b>4</b> -12	б						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	76.5	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 85.1 % 63.6-154

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Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL E (H203109-05)

TEX 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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1189	6 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	80.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.75	% 63.6-15	4						

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Celey D. Keens



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL F (H203109-06)

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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1189	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyza	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	75.79	6 65.2-14	0				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Surrogate: 1-Chlorooctadecane	79.3 9	63,6-15	4						

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Celey D. Keene



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Sampling Condition:

Project Name:

C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

MONUMENT, NM

Sample ID: CELL H (H203109-07)

TTEX 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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	< 0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1199	6 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	<b>99</b> .5	200	0.749	
Surrogate: 1-Chlorooctane	79.2	% 65.2-14	0			,. <u>.</u> ,			
Surrogate: 1-Chlorooctadecane	85.8	% 63.6-15	4						

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\*=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:

12/28/2012

Sampling Date:

12/27/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL I (H203109-08)

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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1199	% 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>8</b> S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.7 <del>49</del>	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.19	% 63.6-15	4						

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\*=Accredited Analyte

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Celey & Keens



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/28/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location: MONUMENT, NM

Sample ID: CELL J (H203109-09)

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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	<del>9</del> 2,6	2.00	13.9	
Ethylbenzene*	< 0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1199	6 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.7 <b>49</b>	
Surrogate: 1-Chlorooctane	85.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.1	% 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:

12/28/2012

Sampling Date:

12/28/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL K (H203109-10)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1189	6 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		and the second s			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/02/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	82.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.5	% 63.6-15	4						

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Celey D. Keens



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

Fax To: (505) 392-6949

Received:

12/28/2012

Sampling Date:

12/28/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN MONUMENT, NM

Sample Received By:

Jodi Henson

### Sample ID: CELL L (H203109-11)

oluene* thylbenzene* otal Xylenes* otal BTEX  urrogate: 4-Bromofluorobenzene (Pla hloride, SM4500Cl-B  Analyte  hloride PH 8015M  Analyte  RO C6-C10 RO >C10-C28	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1179	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	01/02/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	78.5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.1	% 63.6-15	4						

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

12/28/2012

Sampling Date:

12/28/2012

Reported:

01/03/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN MONUMENT, NM Sample Received By:

Jodi Henson

### Sample ID: CELL M (H203109-12)

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	12/31/2012	ND	1.73	86.6	2.00	13.7	
Toluene*	<0.050	0.050	12/31/2012	ND	1.85	92.6	2.00	13.9	
Ethylbenzene*	<0.050	0.050	12/31/2012	ND	1.77	88.5	2.00	14.7	
Total Xylenes*	<0.150	0.150	12/31/2012	ND	5.45	90.8	6.00	14.0	
Total BTEX	<0.300	0.300	12/31/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	1179	6 89.4-120	5						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/02/2013	ND	432	108	400	3.77	
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	12/31/2012	ND	187	93.5	200	0.497	
DRO >C10-C28	<10.0	10.0	12/31/2012	ND	199	99.5	200	0.749	
Surrogate: 1-Chlorooctane	te: 1-Chlorooctane 87.7 % 65.2-140		)						,
Surrogate: 1-Chlorooctadecane	95.99	63.6-154	!						

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Celey & Keens



### **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

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Celey & Keens

### Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  [576] 383-2326 FAX (576) 383-2476  [5 14 : 2	Page 1																_	
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Page 15 of 16



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 16 of 16



January 31, 2013

**Eddie Seay** 

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM (NM-01-0012) VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 12/28/12 14:55.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL G-1	H203108-01	Soil	28-Dec-12 08:20	28-Dec-12 14:55
CELL G-2	H203108-02	Soil	28-Dec-12 08:50	28-Dec-12 14:55
CELL G-3	H203108-03	Soil	28-Dec-12 09:30	28-Dec-12 14:55
CELL G-4	H203108-04	Soil	28-Dec-12 10:15	28-Dec-12 14:55

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Celay & Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported: 31-Jan-13 11:33

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

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL G-1 H203108-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
Inorganic Compounds									
% Solids	100		%	1	3012914	CK	03-Jan-13	D2216	GAL
Chloride	31.0	16.0	mg/kg	4	3011010	$D\mathbf{W}$	15-Jan-13	4500-Cl-B	
Cyanide (total)	ND	5.00 n	ng/kg dry wt.	1000	3013108	CK	04-Jan-13	9012B	GAL
Fluoride	5.00	0.800 n	ng/kg dry wt.	4	3013107	CK	08-Jan-13	4500F C	GAL
Nitrate/Nitrite as N	6.72	0.200 n	ng/kg dry wt.	4	3013105	CK	07-Jan-13	353.2	GAL
Nitrite as N	ND	0.080 n	ng/kg dry wt.	4	3013105	CK	23-Jan-13	353.2	GAL
pH*	8.14	0.100	pH Units	1	3010419	$\mathbf{D}\mathbf{W}$	04-Jan-13	150.1	
Phenols	ND	0.5 n	ng/kg dry wt.	1	3013110	CK	14-Jan-13	EPA9065	
Sulfate	53.6	40.0	mg/kg	4	3010805	AP	08-Jan-13	375.4	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctane		77.8 %	65.2-1	40	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctadecane		87. <b>0</b> %	63.6-1	54	2123101	MS	31-Dec-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
Surrogate: Tetrachloro-meta-xylene		92.0 %	35-14	10	3013109	СК	09-Jan-13	8082	

Cardinal Laboratories \*=Accredited Analyte

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Celey L. Keene



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL G - 1 H203108-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborato	ries					
Total Metals									
Arsenic	13.2	10.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Barium	94.6	1.00 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Cadmium	0.297	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Chromium	2.22	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Copper	3.51	2.00 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Iron	3700	5.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Lead	2.01	0.05 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Manganese	42.5	0.5 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Selenium	0.440	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Silver	0.0376	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Uranium	0.505	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAI
Zinc	24.4	5.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Mercury (Total) by CVAA									
Mercury	ND	0.099 m	g/kg dry wt.	495	3013114	CK	03-Jan-13	7471A	GAI
Radionuclides									SUB-RS
Radium-226	1.5 ± 0.2		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Total Radium	$1.5 \pm 0.2$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Volatile Organic Compounds by E	PA Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3010 <b>7</b> 0 <b>7</b>	ms	08-Jan-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	

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Celey D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: C & C LANDFARM Project Manager: Eddie Seay 31-Jan-13 11:33

Fax To: (505) 392-6949

### CELL G - 1 H203108-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA Me	thod 8260B								
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2-Trichloroethane	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Naphthalene*	ND '	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Surrogate: Dibromofluoromethane		93.1 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: Toluene-d8		102 %	<i>70</i>	130	3010707	ms	08-Jan-13	8260	
Surrogate: 4-Bromofluorobenzene		97.8 %	<i>70</i>	130	3010707	ms	08-Jan-13	8260	
Semivolatile Organic Compounds by GC	MS								
Naphthalene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	

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Celey & Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL G - 1 H203108-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by GCMS									
Chrysene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3010410	ms	07-Jan-13	8270C	
Surrogate: Nitrobenzene-d5		86.5 %	16.1-	91.8	3010410	ms	07-Jan-13	8270C	
Surrogate: 2-Fluorobiphenyl		40.2 %	27.2-	92.9	3010410	ms	07-Jan-13	8270C	
Surrogate: Terphenyl-dl4		37.8 %	21.3-	96.1	3010410	ms	07-Jan-13	8270C	

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Celay & Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported: 31-Jan-13 11:33

601 W. Illinois Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G-2 H203108-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
Inorganic Compounds									
% Solids	100		%	1	3012914	CK	03-Jan-13	D2216	GAL
Chloride	ND	16.0	mg/kg	4	3011010	AP	10-Jan-13	4500-Cl-B	
Cyanide (total)	ND	5.00 m	ng/kg dry wt.	1000	3013108	CK	04-Jan-13	9012B	GAL
Fluoride	1.13	0.800 п	ng/kg dry wt.	4	3013107	CK	08-Jan-13	4500F C	GAL
Nitrate/Nitrite as N	0.357	0.200 п	ng/kg dry wt.	4	3013105	CK	07-Jan-13	353.2	GAL
Nitrite as N	0.166	0.080 п	ng/kg dry wt.	4	3013105	CK	23-Jan-13	353.2	GAL
pH*	8.17	0.100	pH Units	1	3010419	DW	04-Jan-13	150.1	
Phenois	ND	0.5 m	ng/kg dry wt.	1	3013110	CK	14-Jan-13	EPA9065	
Sulfate	ND	40.0	mg/kg	4	3010805	AP	08-Jan-13	375.4	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctane		82.8 %	65.2-1	40	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctadecane		92.9 %	63.6-1	54	2123101	MS	31-Dec-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
Surrogate: Tetrachloro-meta-xylene		89.5 %	35-14	0	30131 <b>0</b> 9	CK	09-Jan-13	8082	

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Celey D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Fax To: (505) 392-6949

CELL G - 2 H203108-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal	Laborato	ries					
Total Metals									
Arsenic	0.468	0.050 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Barium	11.9	1.00 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Cadmium	0.106	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Chromium	1.42	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Copper	0.592	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Iron	2010	5.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Lead	1.33	0.05 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Manganese	25.2	0.5 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Selenium	ND	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Silver	0.0153	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Uranium	0.0538	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Zinc	3.21	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Mercury (Total) by CVAA									
Mercury	ND	0.095 m	g/kg dry wt.	476	3013114	CK	03-Jan-13	7471A	GAL
Radionuclides									SUB-RS
Radium-226	$1.2 \pm 0.2$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Total Radium	$1.2 \pm 0.2$		pCi/gram	1	<b>3</b> 013111	CK	15-Jan-13	903.1/904	
Volatile Organic Compounds by EPA	Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	

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Celey D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Fax To: (505) 392-6949

# CELL G - 2 H203108-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories				-	
Volatile Organic Compounds by EPA Met	hod 8260B								
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Surrogate: Dibromofluoromethane		91.5 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: Toluene-d8		102 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: 4-Bromoftworobenzene		95.8 %	70-	130	3010707	ms	08-Jan-13	8260	
Semivolatile Organic Compounds by GCM	4S								
Naphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



**Eddie Seay Consulting** 

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL G - 2 H203108-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
		Cardina	l Laborat	ories									
Semivolatile Organic Compounds by GCMS													
Chrysene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Benzo[a]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C					
Surrogate: Nitrobenzene-d5		111 %	16.1-	91.8	3010410	ms	04-Jan-13	8270C					
Surrogate: 2-Fluorobiphenyl		73.8 <b>%</b>	27.2-	92.9	3010410	ms	04-Jan-13	8270C					
Surrogate: Terphenyl-dl4		81.1 %	21.3-	96.1	3010410	ms	04-Jan-13	8270C					

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G - 3 H203108-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ories					
Inorganic Compounds									
% Solids	100		%	1	3012914	CK	03-Jan-13	D2216	GAL
Chloride	ND	16.0	mg/kg	4	3011010	AP	10-Jan-13	4500-Cl-B	
Cyanide (total)	ND	5.00 m	ng/kg dry wt.	1000	3013108	CK	04-Jan-13	9012B	GAL
Fluoride	3.27	0.800 m	ng/kg dry wt.	4	3013107	CK	08-Jan-13	4500F C	GAL
Nitrate/Nitrite as N	2.76	0.200 п	ng/kg dry wt.	4	3013105	CK	07-Jan-13	353.2	GAL
Nitrite as N	0.135	0.080 m	ng/kg dry wt.	4	3013105	CK	23-Jan-13	353.2	GAL
pH*	8.23	0.100	pH Units	1	3010419	DW	04-Jan-13	150.1	
Phenois	ND	0.5 π	ng/kg dry wt.	1	3013110	CK	14-Jan-13	EPA9065	
Sulfate	ND	40.0	mg/kg	4	3010805	AP	08-Jan-13	375.4	
Organic Compounds					·····				
GRO C6-C10	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctane		88.7 %	65.2-	140	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctadecane		95.6 %	63.6-	154	2123101	MS	31-Dec-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
Surrogate: Tetrachloro-meta-xylene		106 %	35-1-	40	3013109	CK	09-Jan-13	8082	

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Celey D. Keene



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G - 3 H203108-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal	Laborato	ries					
Total Metals									
Arsenic	0.441	0.050 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Barium	16.3	1.00 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Cadmium	0.128	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Chromium	1.63	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Copper	0.917	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Iron	2410	5.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Lead	1.62	0.05 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Manganese	39.7	0.5 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Selenium	0.124	0.100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Silver	0.0200	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Uranium	0.0762	0.0100 m	g/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GAL
Zinc	9.1	5.0 m	g/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAL
Mercury (Total) by CVAA							· ·		
Mercury	ND	0.095 m	g/kg dry wt.	476	3013114	CK	03-Jan-13	7471A	GAL
Radionuclides									SUB-RS
Radium-226	$0.9 \pm 0.1$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Radium-228	ND	0.70	pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Total Radium	$0.9 \pm 0.1$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Volatile Organic Compounds by E	PA Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



**Eddie Seay Consulting** Hobbs NM, 88242

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

601 W. Illinois

Project Number: C & C LANDFARM

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G-3 H203108-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA N	Aethod 8260B								
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	<b>826</b> 0	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2-Trichloroeth ane*	ND	0.0500	mg∕kg	50	3010707	ms	08-Jan-13	<b>826</b> 0	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	<b>826</b> 0	
Total Xylenes*	ND	0.150	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Surrogate: Dibromofluoromethane		93.7 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: Toluene-d8		104 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: 4-Bromofluorobenzene		97.6 %	70-	130	3010707	ms	08-Jan-13	8260	
Semivolatile Organic Compounds by G	CMS								
Naphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
2-Methyln aphth alene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
l-Methyln aphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
fluorene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Pluoranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: C & C LANDFARM (NM-01-0012) V/

Reported:

01 W. Illinois

Project Number: C & C LANDFARM

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL G - 3 H203108-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes					
		Cardina	l Laborat	ories										
Semivolatile Organic Compounds by GCMS														
Chrysene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Benzo[b]flouranthene	ND	0.040	mg∕kg	40	3010410	ms	04-Jan-13	8270C						
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Benzo[a]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C						
Surrogate: Nitrobenzene-d5		93.8 %	16.1-	91.8	3010410	ms	04-Jan-13	8270C						
Surrogate: 2-Fluorobiphenyl		69.6 %	27.2-	92.9	3010410	ms	04-Jan-13	8270C						
Surrogate: Terphenyl-dl4		78.4 %	21.3-	96.1	3010410	ms	04-Jan-13	8270C						

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Celey D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G - 4 H203108-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
Inorganic Compounds									
% Solids	100		%	1	3012914	CK	03-Jan-13	D2216	GAL
Chloride	ND	16.0	mg/kg	4	3011010	AP	10-Jan-13	4500-Cl-B	
Cyanide (total)	ND	5.00 m	ig/kg dry wt.	1000	3013108	CK	04-Jan-13	9012B	GAL
Fluoride	1.13	0.800 п	ng/kg dry wt.	4	3013107	CK	08-Jan-13	4500F C	GAL
Nitrate/Nitrite as N	0.854	0.200 m	ng/kg dry wt.	4	3013105	CK	07-Jan-13	353.2	GAL
Nitrite as N	0.190	0.080 п	ng/kg dry wt.	4	3013105	CK	23-Jan-13	353.2	GAL
pH*	8.30	0.100	pH Units	1	3010419	D <b>W</b>	04-Jan-13	150.1	
Phenols	ND	0.5 m	ng/kg dry wt.	1	3013110	CK	14-Jan-13	EPA9065	
Sulfate	ND	40.0	mg/kg	4	3010805	AP	08-Jan-13	375.4	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctane		81.0 %	65.2-1	40	2123101	MS	31-Dec-12	8015M	
Surrogate: 1-Chlorooctadecane		92.5 %	63.6-1	54	2123101	MS	31-Dec-12	8015M	
Organic Compounds									SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3013109	CK	09-Jan-13	8082	
Surrogate: Tetrachloro-meta-xylene		86.4 %	35-14	10	3013109	CK	09-Jan-13	8082	

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Celeg & Keins



**Eddie Seay Consulting** 

Project: C & C LANDFARM (NM-01-0012) V/

Reported: 31-Jan-13 11:33

601 W. Illinois Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G-4 H203108-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
Total Metals									
Arsenic	0.494	0.050 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Barium	17.2	1.00 n	ng/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GA
Cadmium	0.149	0.0100 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Chromium	1.83	0.100 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Copper	1.06	0.0100 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Iron	2830	5.0 n	ng/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GA
Lead	1.89	0.05 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Manganese	49.6	0.5 n	ng/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GA
Selenium	0.129	0.100 п	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Silver	0.0223	0.0100 n	ng/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Uranium	0.0793	0.0100 n	ıg/kg dry wt.	100	3013113	CK	15-Jan-13	6020	GA
Zinc	9.3	5.0 n	ng/kg dry wt.	100	3013112	CK	14-Jan-13	6010B	GAI
Mercury (Total) by CVAA		······································							
Mercury	ND	0.098 n	ng/kg dry wt.	490	3013114	CK	03-Jan-13	7471A	GAI
Radionuclides									SUB-RS
Radium-226	$\boldsymbol{1.7 \pm 0.2}$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Total Radium	$\boldsymbol{1.7 \pm 0.2}$		pCi/gram	1	3013111	CK	15-Jan-13	903.1/904	
Volatile Organic Compounds by I	EPA Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
,1-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
l,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	

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\*=Accredited Analyte

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Celeg & Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Fax To: (505) 392-6949

CELL G - 4 H203108-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA M	lethod 8260B								
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2-Trichloroeth ane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	<b>826</b> 0	
Ethylbenzene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3010707	ms	08-Jan-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3010707	ms	08-Jan-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3010707	ms	08-Jan-13	8260	
Surrogate: Dibromofluoromethane		93.0 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: Toluene-d8		103 %	70-	130	3010707	ms	08-Jan-13	8260	
Surrogate: 4-Bromofluorobenzene		97.4 %	70-	130	3010707	ms	08-Jan-13	8260	
Semivolatile Organic Compounds by G	CMS								
Naphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
1-Methyln aphth alene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	

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Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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

> CELL G - 4 H203108-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
1 days		- Dank							
		Cardina	Labora	tories					
Semivolatile Organic Compounds by GCMS									
Chrysene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3010410	ms	04-Jan-13	8270C	
Surrogate: Nitrobenzene-d5		97.3 %	16.1	-91.8	3010410	ms	04-Jan-13	8270C	
Surrogate: 2-Fluorobiphenyl		74.7 %	27.2	-92.9	3010410	ms	04-Jan-13	8270C	
Surrogate: Terphenyl-dl4		79.5 %	21.3	-96.1	3010410	ms	04-Jan-13	8270C	

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Eddie Seay Consulting 601 W. Illinois

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Fax To: (505) 392-6949

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

(°										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3010419 - NO PREP										
Baici 3010419 - NO FREE										
LCS (3010419-BS1)					Analyzed:					
pH	7.09		pH Units	7.00		101	90-110			
Duplicate (3010419-DUP1)	Sou	urce: H203108	<b>-01</b>	Prepared &	Analyzed:	04-Jan-13				
рН	8.32	0.100	pH Units		8.14			2.19	20	
Batch 3010805 - General Prep - Wet Chem										
Blank (3010805-BLK1)				Prepared &	Analyzed:	08-Jan-13				
Sulfate	ND	10.0	mg/kg							
LCS (3010805-BS1)				Prepared &	Analyzed:	08-Jan-13				
Sulfate	21.5	10.0	mg/kg	20.0		107	80-120			
LCS Dup (3010805-BSD1)				Prepared &	Analyzed:	08-Jan-13				
Sulfate	22.6	10.0	mg/kg	20.0		113	80-120	5.40	20	
Batch 3011010 - 1:4 DI Water										
Blank (3011010-BLK1)				Prepared &	Analyzed:	10-Jan-13				
Chloride	ND	16.0	mg/kg							
LCS (3011010-BS1)				Prepared &	Analyzed:	10-Jan-13				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3011010-BSD1)				Prepared &	Analyzed:	10-Jan-13				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Eddie Seay Consulting 601 W. Illinois

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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 3013105 - General Prep										
Blank (3013105-BLK1)				Prepared: (	07-Jan-13 A	nalyzed: 23	3-Jan-13			
Nitrite as N	ND	0.020	mg/kg dry wt.							
Nitrate/Nitrite as N	ND	0.050	mg/kg dry wt.							
LCS (3013105-BS1)				Prepared: (	07-Jan-13 A	nalyzed: 23	3-Jan-13			
Nitrite as N	0.086		mg/L	0.100		86.0	85-115			
Nitrate/Nitrite as N	0.096		mg/L	0.100		96.0	85-115			
LCS Dup (3013105-BSD1)				Prepared: (	07-Jan-13 A	nalyzed: 23	3-Jan-13			
Nitrite as N	0.089		mg/L	0.100		89.0	85-115	3.43	20	
Nitrate/Nitrite as N	0.100		mg/L	0.100		100	85-115	4.08	20	
Batch 3013107 - General Prep										
Blank (3013107-BLK1)				Prepared &	Analyzed:	08-Jan-13				
Fluoride	ИN	0.200	mg/kg dry wt.							
LCS (3013107-BS1)				Prepared &	Analyzed:	08-Jan-13				
Fluoride	1.01		mg/L	1.00		101	85-115			
LCS Dup (3013107-BSD1)				Prepared &	Analyzed:	08-Jan-13				
Fluoride	1.12		mg/L	1.00		112	85-115	10.3	20	
Batch 3013108 - General Prep										
Blank (3013108-BLK1)				Prepared: (	03-Jan-13 A	nalyzed: 04	-Jan-13			
Cyanide (total)	ND	0.00500								
			wt.							

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**Eddie Seay Consulting** 

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay

31-Jan-13 11:33

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 3013108 - General Prep										
LCS (3013108-BS1)				Prepared: 0	3-Jan-13 A	nalyzed: 04	4-Jan-13			
Cyanide (total)	0.0426		mg/L	0.0500		85.2	85-115			
LCS Dup (3013108-BSD1)				Prepared: 0	3-Jan-13 A	nalyzed: 04	4-Jan-13			
Cyanide (total)	0.0492		mg/L	0.0500		98.4	85-115	14.4	20	
Batch 3013110 - General Prep										
Blank (3013110-BLK1)				Prepared &	Analyzed:	14-Jan-13				
Phenois	ND	0.5	mg/kg dry wt.							
LCS (3013110-BS1)				Prepared &	Analyzed:	14-Jan-13				
Phenols	0.4		mg/kg	0.400		102	70-130			
Matrix Spike (3013110-MS1)	Sour	ce: <b>H20310</b> 8	8-02	Prepared &	Analyzed:	14-Jan-13				
Phenols	4.3		mg/kg	4.08	0.0	106	70-130			
Matrix Spike Dup (3013110-MSD1)	Sour	ce: H <b>20</b> 31 <b>0</b> 6	8-02	Prepared &	Analyzed:	14-Jan-13				
Phenols	4.3		mg/kg	4.08	0.0	105	70-130	1.40	20	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: C & C LANDFARM (NM-01-0012) V/

Reported:

501 W. Illinois

Project Number: C & C LANDFARM
Project Manager: Eddie Seay

31-Jan-13 11:33

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 2123101 - General Prep - Organics							· · · · · · · · · · · · · · · · · · ·		<b></b>	
Blank (2123101-BLK1)				Prepared &	Analyzed:	31-Dec-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	42.6		mg/kg	50.5		84.4	65.2-140			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		<i>95</i> .7	63.6-154			
LCS (2123101-BS1)				Prepared &	Analyzed:	31-Dec-12	!			
GRO C6-C10	187	10.0	mg/kg	200		93.5	66.4-124			
DRO >C10-C28	199	10.0	mg/kg	200		99.5	61.6-132			
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	69.7-122			
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.5		90.2	65.2-140			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	63.6-154			
LCS Dup (2123101-BSD1)				Prepared &	Analyzed:	31-Dec-12				
GRO C6-C10	186	10.0	mg/kg	200		93.0	66.4-124	0.497	23.4	
DRO >C10-C28	197	10.0	mg/kg	200		98.7	61.6-132	0.749	23.1	
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	69.7-122	0.627	20.6	
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.5		89.4	65.2-140			
Surrogate: 1-Chlorooctadecane	45.7		mg/kg	50.0		91.4	63.6-154			

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Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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 3013109 - General Prep										
Blank (3013109-BLK1)				Prepared: (	)3-Jan-13 A	nalyzed: 09	-Jan-13			
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	8.13	10.540	ug/L	10.0		81.3	35-140		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LCS (3013109-BS1)				Prepared: (	)3-Jan-13 A	nalyzed: 09	-Jan-13			
PCB 1016	78.5		ug/L	100		78.5	40-130			
PCB 1242	ND	10.0	ug/kg				40-130			
PCB 1254	ND	10.0	ug/kg				40-130			
PCB 1260	55.9		ug/L	100		55.9	40-130			
Surrogate: Tetrachloro-meta-xylene	10.6		ug/L	10.0		106	35-140			
Matrix Spike (3013109-MS1)	Source	e: H203108-	-01	Prepared: (	)3-Jan-13 A	nalyzed: 09	-Jan-13			
PCB 1016	60.4		ug/L	100	ND	60.4	40-130			
PCB 1242	ND	10.0	ug/kg		ND		40-130			
PCB 1254	ND	10.0	ug/kg		ND		40-130			
PCB 1260	43.5		ug/L	100	ND	43.5	40-130			
Surrogate: Tetrachloro-meta-xylene	9.41		ug/L	10.0		94.1	35-140			
Matrix Spike Dup (3013109-MSD1)	Source	e: H203108-	-01	Prepared: (	)3-Jan-13 A	nalyzed: 09	)-Jan-13			
PCB 1016	59.4		ug/L	100	ND	59.4	40-130	1.67	30	
PCB 1242	ND	10.0	ug/kg		ND		40-130		30	
PCB 1254	ND	10.0	ug/kg		ND		40-130		30	
PCB 1260	41.3		ug/L	100	ND	41.3	40-130	5.19	30	
Surrogate: Tetrachloro-meta-xylene	5.30		ug/L	10.0		53.0	35-140			

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Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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
Analyse	Result	Lunn	Onics	TCACI	Kesuit	70REC	Limis	KFD	Lillit	Notes
Batch 3013112 - EPA 3050										
Blank (3013112-BLK1)				Prepared &	Analyzed:	14-Jan-13				
Barium	ND	0.0100	mg/kg dry							
Arsenic	ND	0.100	wt. mg/kg dry							
			wt.							
Manganese	ND	0.005	mg/kg dry wt.							
Iron	ND	0.05	mg/kg dry							
Zinc	ND	0.05	wt. mg/kg dry							
			wt.							
Copper	ND	0.02	mg/kg dry wt.							
LCS (3013112-BS1)				Prepared &	Analyzed:	14-Jan-13				
Manganese	1.9		mg/kg	2.00		95.5	85-115			
Berium	1.87		mg/kg	2.00		93.5	85-115			
Copper	3.95		mg/kg	4.00		98.8	85-115			
Zinc	1.8		mg/kg	2.00		90.5	85-115			
Iron	3.8		mg/kg	4.00		94.5	85-115			
Arsenic	3.95		mg/kg	4.00		98.8	85-115			
LCS Dup (3013112-BSD1)				Prepared &	Analyzed:	14-Jan-13				
Manganese	1.9		mg/kg	2.00		94.0	85-115	1.58	20	
Zinc	1.8		mg/kg	2.00		88.5	85-115	2.23	20	
Arsenic	3.85		mg/kg	4.00		96.2	85-115	2.56	20	
Barium	1.83		mg/kg	2.00		91.5	85-115	2.16	20	
fron .	3.7		mg/kg	4.00		92.8	85-115	1.87	20	
Copper	3.89		mg/kg	4.00		97.2	85-115	1. <b>53</b>	20	
Batch 3013113 - EPA 3050										
Blank (3013113-BLK1)				Prepared: 1	14-Jan-13 A	nalyzed: 15	i-Jan-13			
Zinc	0.00640	0.00100	mg/kg dry				111111111111111111111111111111111111111			

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Celey & Keens

%REC



# Analytical Results For:

Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

RPD

Fax To: (505) 392-6949

Spike

Source

### **Total Metals - Quality Control**

### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3013113 - EPA 3050										
Blank (3013113-BLK1)				Prepared:	l <b>4-Jan-1</b> 3 A	nalyzed: 15	-Jan-13			
Arsenic	ND	0.0005	mg/kg dry		, , , , , , , , , , , , , , , , , , , ,					
Copper	0.000200	0.000100	wt. mg/kg dry							В1
Сорра	0.000200	0.000100	wt.							D.
Selenium	ND	0.001	mg/kg dry							
Silver	ND	0.0001	wt.							
Silver	ND	0.0001	mg/kg dry wt.							
Chromium	ND	0.001	mg/kg dry							
			wt.							
Lead	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	wt. mg/kg dry							
	112	0.0001	wt.							
Uranium	ND	0.0001	mg/kg dry							
			wt.							
LCS (3013113-BS1)				Prepared:	14-Jan-13 A	nalyzed: 15	-Jan-13			
Zinc	0.0487		mg/kg	0.0500		97.4	85-115			
Cadmium	0.0486		mg/L	0.0500		97.2	85-115			
Silver	0.0480		mg/L	0.0500		96.0	85-115			
Copper	0.0491		mg/kg	0.0500		98.2	85-115			
Uranium	0.0520		mg/kg	0.0500		104	85-115			
Arsenic	0.051		mg/L	0.0500		103	85-115			
Selenium	0.249		mg/L	0.250		99.6	85-115			
Lead	0.05		mg/L	0.0500		96.8	85-115			
Chromium	0.050		mg/L	0.0500		100	85-115			
LCS Dup (3013113-BSD1)				Prepared:	14-Jan-13 A	nalyzed: 15	-Jan-13			
Uranium	0.0501		mg/kg	0.0500		100	85-115	3.72	20	
Selenium	0.250		mg/L	0.250		100	85-115	0.401	20	
Cadmium	0.0491		mg/L	0.0500		98.2	85-115	1.02	20	
Copper	0.0495		mg/kg	0.0500		99.0	85-115	0.811	20	
Lead	0.05		mg/L	0.0500		95.0	85-115	1.88	20	
Silver	0.0482		mg/L	0.0500		96.4	85-115	0.416	20	

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Celey D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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	Limit	Notes
Batch 3013113 - EPA 3050										
LCS Dup (3013113-BSD1)				Prepared: 1	14-Jan-13 A	nalyzed: 15	-Jan-13			
Arsenic	0.048		mg/L	0.0500		95.8	85-115	6.85	20	
Chromium	0.048		mg/L	0.0500		95.2	85-115	5.12	20	
Zinc	0.0488		mg/kg	0.0500		97.6	85-115	0.205	20	

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Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

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 3013114 - EPA 7471										
Blank (3013114-BLK1)				Prepared &	Analyzed:	03-Jan-13				
Mercury	ND	0.0002	mg/kg dry wt.							
LCS (3013114-BS1)				Prepared &	Analyzed:	03-Jan-13				
Mercury	1.05		mg/kg	1.00		105	85-115			
LCS Dup (3013114-BSD1)				Prepared &	Analyzed:	03-Jan-13				
Mercury	1.10		mg/kg	1.00		110	85-115	4.65	20	

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**Eddie Seay Consulting** 

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay

31-Jan-13 11:33

Fax To: (505) 392-6949

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3010707 - Volatiles										
Blank (3010707-BLK1)				Prepared: 0	7-Jan-13 A	nalyzed: 08	-Jan-13			
Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.100	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		92.9	70-130			
Surrogate: Toluene-d8	0.512		mg/kg	0.500		102	70-1 <b>30</b>			
Surrogate: 4-Bromofluorobenzene	0.483		mg/kg	0.500		96.6	70-130			
LCS (3010707-BS1)				Prepared: (	)7-Jan-13 A	nalyzed: 08	3-Jan-13			
Vinyl chloride	1.78	0.0500	mg/kg	2.00		88.9	70-130			
1,1-Dichloroethene	2.18	0.0500	mg/kg	2.00		109	<b>7</b> 0-1 <b>3</b> 0			
Methylene chloride	1.84	0.100	mg/kg	2.00		92.2	70-130			
1,1-Dichloroethane	2.07	0.0500	mg/kg	2.00		104	70-130			
Chloroform	1.90	0.0500	mg/kg	2.00		95.1	<b>7</b> 0-130			
Carbon tetrachloride	2.19	0.0500	mg/kg	2.00		110	<b>70-13</b> 0			
1,1,1-Trichloroethane	2.00	0.0500	mg/kg	2.00		100	70-130			

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Celuy D. Keens



Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: C & C LANDFARM Project Manager: Eddie Seay 31-Jan-13 11:33

Fax To: (505) 392-6949

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3010707 - Volatiles										
LCS (3010707-BS1)				Prepared: 0	7-Jan-13 A	nałyzed: 08	-Jan-13			
Benzene	1.97	0.0500	mg/kg	2.00		98.3	70-130			
1,2-Dichloroethane	1.91	0.0500	mg/kg	2.00		95.6	70-130			
Trichloroethene	1.91	0.0500	mg/kg	2.00		95.6	<b>70-13</b> 0			
Toluene	1.90	0.0500	mg/kg	2.00		95.2	70-130			
Tetrachloroethene	1.87	0.0500	mg/kg	2.00		93.3	<b>70-13</b> 0			
1,1,2-Trichloroethane	1.89	0.0500	mg/kg	2.00		94.6	70-130			
1,2-Dibromoethane	1.89	0.0500	mg/kg	2.00		94.7	70-130			
Ethylbenzene	1.95	0.0500	mg/kg	2.00		97.5	70-130			
m-p Xylenes	4.07	0.100	mg/kg				70-130			
p-Xylene	2.11	0.0500	mg/kg	2.00		106	70-130			
Total Xylenes	6.18	0.150	mg/kg	6.00		103	70-130			
,1,2,2-Tetrachloroethane	1.88	0.0500	mg/kg	2.00		94.0	70-130			
Naphthalene	1.70	0.0500	mg/kg	2.00		85.2	70-130			
Surrogate: Dibromofluoromethane	0.504		mg/kg	0.500		101	70-130			
Surrogate: Toluene-d8	0.503		mg/kg	0.500		101	70-130			
urrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	7 <b>0</b> -130			
LCS Dup (3010707-BSD1)				Prepared: (	7-Jan-13 A	nalyzed: 08	3-Jan-13			
Vinyl chloride	1.92	0.0500	mg/kg	2.00		95.8	70-130	7.49	20	
,1-Dichloroethene	2.22	0.0500	mg/kg	2.00		111	70-130	1.95	20	
Methylene chloride	1.90	0.100	mg/kg	2.00		95.1	70-130	3.03	20	
,1-Dichloroethane	2.17	0.0500	mg/kg	2.00		108	70-130	4.59	20	
Chloroform	1.99	0.0500	mg/kg	2.00		99.4	70-130	4.37	20	
Carbon tetrachloride	2.29	0.0500	mg/kg	2.00		115	70-130	4.42	20	
,1,1-Trichloroethane	2.10	0.0500	mg/kg	2.00		105	70-130	4.51	20	
Benzene	2.05	0.0500	mg/kg	2.00		103	70-130	4.17	20	
,2-Dichloroethane	2.01	0.0500	mg/kg	2.00		100	70-130	4.87	20	
Trichloroethene	2.03	0.0500	mg/kg	2.00		101	70-130	5.84	20	
Coluene	1.99	0.0500	mg/kg	2.00		99.7	70-130	4.55	20	
l'etrachloroethene	2.06	0.0500	mg/kg	2.00		103	70-130	10.0	20	
1,1,2-Trichloroethane	1.96	0.0500	mg/kg	2.00		98.2	<b>70</b> -130	3.72	20	
1,2-Dibromoethane	2.00	0.0500	mg/kg	2.00		100	70-130	5.45	20	

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Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3010707 - Volatiles										
LCS Dup (3010707-BSD1)				Prepared: (	7-Jan-13 A	nalyzed: 08	8-Jan-13			
Ethylbenzene	2.05	0.0500	mg/kg	2.00		102	70-130	4.93	20	
m-p Xylenes	4.24	0.100	mg/kg				70-130	4.08	20	
o-Xylene	2.21	0.0500	mg/kg	2.00		111	70-130	4.64	20	
Total Xylenes	6.45	0.150	mg/kg	6.00		108	<b>7</b> 0-1 <b>3</b> 0	4.27	20	
1,1,2,2-Tetrachloroethane	1.94	0.0500	mg/kg	2.00		97.1	70-130	3.30	20	
Naphthalene	1.84	0.0500	mg/kg	2.00		91.8	70-130	7.36	20	
Surrogate: Dibromofluoromethane	0.505		mg/kg	0.500		101	70-130			
Surrogate: Toluene-d8	0.498		mg/kg	0.500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.497		mg/kg	0.500		99.4	<i>70-130</i>			

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%REC



# Analytical Results For:

Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Spike

Source

Reported:

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

31-Jan-13 11:33

RPD

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

Semivolatile Organic Compounds by GCMS - Quality Control

### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3010410 - SW-846 3550										
Blank (3010410-BLK1)				Prepared &	Analyzed:	04-Jan-13				
Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
l-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Aceraphthene	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	0.952		mg/kg	2.00		47.6	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.33		mg/kg	2.00		66.6	27.2-92.9			
Surrogate: Terphenyl-dl4	1.47		mg/kg	2.00		73.4	21.3-96.1			
LCS (3010410-BS1)				Prepared &	Analyzed:	04-Jan-13				
Naphthalene	0.439	0.040	mg/kg	0.500		87.8	5.46-157			
2-Methylnaphthalene	0.430	0.040	mg/kg	0.500		86.1	16.1-146			
Acenaphthylene	0.464	0.040	mg/kg	0.500		92.7	21.6-144			
Acenaphthene	0.578	0.040	mg/kg	0.500		116	27-143			
Fluorene	0.456	0.040	mg/kg	0.500		91.2	30.9-138			
Phenanthrene	0.467	0.040	mg/kg	0.500		93.4	38.6-149			
Anthracene	0.460	0.040	mg/kg	0.500		92.0	36.1-149			
Carbazole	0.400	0.040	mg/kg	0.500		80.1	29.8-144			

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Celey to Keens-

%REC



### Analytical Results For:

Eddie Seay Consulting

Project: C & C LANDFARM (NM-01-0012) V/

Source

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: C & C LANDFARM Project Manager: Eddie Seay 31-Jan-13 11:33

RPD

Fax To: (505) 392-6949

Spike

### Semivolatile Organic Compounds by GCMS - Quality Control

### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3010410 - SW-846 3550										
LCS (3010410-BS1)				Prepared &	Analyzed:	04-Jan-13				
Fluoranthene	0.396	0.040	mg/kg	0.500		79.1	34.6-148			
Рутепе	0.508	0.040	mg/kg	0.500		102	24.8-154			
Benzo[a]anthracene	0.362	0.040	mg/kg	0.500		72.3	0-179			
Chrysene	0.495	0.040	mg/kg	0.500		99.0	35.1-150			
Benzo[b]flouranthene	0.358	0.040	mg/kg	0.500		71.6	17.6-158			
Benzo[k]flouranthene	0.416	0.040	mg/kg	0.500		83.2	10.6-169			
Benzo[a]pyrene	0.373	0.040	mg/kg	0.500		74.7	2.25-166			
ndeno[1,2,3-cd]pyrene	0.313	0.040	mg/kg	0.500		62.6	0-181			
Dibenz[a,h]anthracene	0.302	0.040	mg/kg	0.500		60.4	2.49-177			
Benzo[g,h,i]perylene	0.322	0.040	mg/kg	0.500		64.4	0-173			
Surrogate: Nitrobenzene-d5	2.20		mg/kg	2.00		110	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.43		mg/kg	2.00		71.6	27.2-92.9			
urrogate: Terphenyl-dl4	1.55		mg/kg	2.00		77 <b>.5</b>	21.3-96.1			
LCS Dup (3010410-BSD1)				Prepared &	Analyzed:	04-Jan-13				
Naphthalene	0.468	0.040	mg/kg	0.500		93.5	5.46-157	6.25	6.7	
-Methylnaphthalene	0.449	0.040	mg/kg	0.500		89.9	16.1-146	4.32	8.99	
Acenaphthylene	0.493	0.040	mg/kg	0.500		98.6	21.6-144	6.18	14.6	
Acenaphthene	0.623	0.040	mg/kg	0.500		125	27-143	7.53	6.99	
luorene	0.467	0.040	mg/kg	0.500		93.5	30.9-138	2.48	13.9	
Phenanthrene	0.489	0.040	mg/kg	0.500		97.9	38.6-149	4.66	14.6	
Anthracene	0.478	0.040	mg/kg	0.500		95.6	36.1-149	3.79	18.5	
Carbazole	0.408	0.040	mg/kg	0.500		81.6	29.8-144	1.88	23.4	
Fluoranthene	0.410	0.040	mg/kg	0.500		82.1	34.6-148	3.66	19.7	
утепе	0.537	0.040	mg/kg	0.500		107	24.8-154	5.54	23	
Benzo[a]anthracene	0.383	0.040	mg/kg	0.500		76.6	0-179	5.79	32.5	
Chrysene	0.557	0.040	mg/kg	0.500		111	35.1-150	11.8	19.4	
Benzo[b]flouranthene	0.367	0.040	mg/kg	0.500		73.5	17.6-158	2.55	31.4	
Benzo[k]flouranthene	0.425	0.040	mg/kg	0.500		85.0	10.6-169	2.04	44.6	
Benzo[a]pyrene	0.362	0.040	mg/kg	0.500		72.3	2.25-166	3.19	60.5	
ndeno[1,2,3-cd]pyrene	0.277	0.040	mg/kg	0.500		55.4	0-181	12.1	77	
Dibenzia, h lanthracene	0.253	0.040	mg/kg	0.500		50.5	2.49-177	17.9	63.3	

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\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardenal's liability and client's exclusive remedy for any claim arising, whether based in contract or tart, shall be limited to the amount paid by client for arrelyses. All claims, including those for negligence and any other cause whetacover that the deemed where Julies made in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall Cardinel be liable for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services reneunder by Cardinel, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This produced except in full with written approval of Cardinel Laboratories.

Celey D. Keine



Eddie Seay Consulting 601 W. Illinois Project: C & C LANDFARM (NM-01-0012) V/

Reported:

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

31-Jan-13 11:33

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 3010410 - SW-846 3550

LCS Dup (3010410-BSD1)				Prepared & Ana	lyzed: 04-Jan-13				
Benzo[g,h,i]perylene	0.279	0.040	mg/kg	0.500	55.8	0-173	14.2	77.4	
Surrogate: Nitrobenzene-d5	2.19		mg/kg	2.00	110	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.42		mg/kg	2.00	71.1	27.2-92.9			
Surrogate: Terphenyl-dl4	1.63		mg/kg	2.00	81.5	21.3-96.1			

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Celeg & Keens



### **Notes and Definitions**

Z-01c	1.7 ± 0.2
Z-01b	$1.5 \pm 0.2$
Z-01a	1.2 ± 0.2
Z-01	$0.9 \pm 0.1$
SUB-SS	Analysis subcontracted to SunStar Laboratorles, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
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 D. Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYSIS REQUEST	Leyenson Sulfetus Zins Re 326 4. Ke	□ No Add'i Phone #:
P.O. #: Company: Attn: Address:	State: Share: Annone #:  Phone #: ACID/BASE: PRESERV ACID/BASE: AMPLING OTHER: AMPLING DATE TIME	It the based in contract or text, shall be limited to the amount paid by the client for the special seaments or text, shall be limited to the amount paid by the client for the applicable surfaces interruption, less of use, or loss of posits incurred by dark, it is an abundanties, the strategies, less of use, or loss of posits incurred by dark, it is an abundanties, and the strategies, less of the strategies, less of the strategies of the st
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	01.77/B	P.O. #:	Company:	Attn:	Address	City:	317 State: Zip:	Phone #:	Fax#:	RIX PRESERV SAMPLING		SVSE:	тиен Тиен	0 0 0 V;						in contract or tort, shall be limited to the amount paid by the client tor	s deemad warked unders made in witing and received by Calicinal within 30 days after completion of ind ag wirbouk limitation, business interruptions in Jase of use, or loss of profits incurred by ellent, its subbaldieri Caterial: standless of whether such claim is based upon any of the above stated reasons or Observate		REMARKS:	
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Company Name: The Soa Cansul ""	Project Manager:	Address:	Gity: State: Zip:	Phone #: Fax #:	Project #: C+C Low Project Owner:	Project Name: CAC Lalta NM. 51. 3312	Project Location:	Sampler Name: Elling Same Sur.		ЯЭТА	Lab I.D. Sample I.D. OR WAT	CON ROU TEAN	s × 50 C - 5 0C S	7. B B 7.	\$ C. 20 6 - 3	4-0 gan 1			PIEASE NOTE: Liahikhy and Damages. Cardinal's liability and client's exclusive remechy for any claim suring whether based incorrect or circl shall be limited to the amount paid by the client to the	amayasa. Ad atamas factoring these for respigatore and any other chairs white based or the applicable analysis. Ad atamas factoring these for respigatore and any other chairs white and attention and any other chairs and any other chairs are consistent and any other chairman and are chairman and any other chairman and are professionally and any other chairman and an	200	Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Relinquished By: Date: Received By:

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

Sample Condition
Cool Intact
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Page 37 of 37

2017 期 -6 P12:44

NMOCD Environmental ATTN: Brad Jones 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm (NM-01-0012) Semi-Annual Vadose & Treatment Zone Sampling

Mr. Jones:

Find within the semi-annual sampling for C & C as required.

C & C continues to disk the cells as the guidelines require and maintained the facility as permitted.

Should you have any questions or need additional information, please let me know.

Sincerely,

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois Hobbs, NM 88242

575-392-2236 seay04@leaco.net

ce: C & C Landfarm



December 20, 2011

Eddie Seay

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM - VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 12/16/11 14:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

Celeg & 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:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL A-V (H102720-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	1079	6 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			*****		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	416	104	400	3.77	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	89.5	% 55.5-15	4	,			1 A.V.,		a
Surrogate: 1-Chlorooctadecane	1109	6 57.6-15	8						

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Celeg D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL B-V (H102720-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	1109	64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS		<u>.                                    </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	85.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	100 9	6 57.6-15	8						

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Celey D. Keens



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

Fax To:

(505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

C & C LANDFARM - VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number: Project Location: NONE GIVEN MONUMENT, NM

Sample ID: CELL C-V (H102720-03)

BTEX 80218	mg ,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	108	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	416	104	400	3.77	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	86.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	109	% 57.6-15	8						

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Celey & Keene



**Eddie Seay Consulting** Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL D-V (H102720-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 64.4-13	4		~~~				
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	87.2 9	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	1069	6 57.6-15	8						

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\*=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:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL E-V (H102720-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 64.4-13	4						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	79.79	% 55.5-15-	4			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	123 %	6 57.6-15	8						

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Celey & Keens



**Eddie Seay Consulting Eddie Seay** 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL F-V (H102720-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND .	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	107%	6 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	85.1 9	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	98.29	6 57.6-15	8						

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Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL G-V (H102720-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/18/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/18/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/18/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	83.7	% 55.5-15	4						•
Surrogate: 1-Chlorooctadecane	111 9	% 57.6-15	8						

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Celay Kena



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Reported: 12/20/2011

Project Name: C & C LANDFARM - VADOSE ZONE

12/16/2011

Project Number: Project Location:

Received:

NONE GIVEN MONUMENT, NM Sampling Date:

12/15/2011 Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: CELL H-V (H102720-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	1.97	98.5	2.00	1.16	
Toluene*	<0.050	0.050	12/19/2011	ND	1.89	94.6	2.00	1.71	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.15	107	2.00	1.59	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.16	103	6.00	0.930	
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	92,5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	101 9	% 57.6-15	8						

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

12/20/2011

Sampling Type:

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

MONUMENT, NM

Sample Received By:

Jodi Henson

## Sample ID: CELL I-V (H102720-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	·<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	109	% 64.4-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/19/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	81.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

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**Eddie Seay Consulting** Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received:

12/16/2011

Sampling Date:

12/15/2011

Reported:

Sampling Type:

Soil

Project Name:

12/20/2011

Sampling Condition:

Cool & Intact

C & C LANDFARM - VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number:

NONE GIVEN

Project Location:

MONUMENT, NM

#### Sample ID: CELL J-V (H102720-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	120 %	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/20/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/20/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	76.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	92.3	% 57.6-15	8						

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Fax To:

(505) 392-6949

Received:

12/16/2011

Sampling Date:

12/16/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM

Sample ID: CELL K-V (H102720-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/20/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/20/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	90.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	128 9	% 57.6-15	8						

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(505) 392-6949 Fax To:

Received:

12/16/2011

Sampling Date:

12/16/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL L-V (H102720-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	1109	% 64.4-13	4						
Chloride, SM4500CHB	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/20/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/20/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	97.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	1159	% 57.6-15	8						

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Received:

12/16/2011

Sampling Date:

12/16/2011

Reported:

Sampling Type:

Soil

12/20/2011

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM - VADOSE ZONE

Sample Received By:

Jodi Henson

Project Number:

NONE GIVEN

Project Location:

MONUMENT, NM

Sample ID: CELL M-V (H102720-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	•
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 64.4-13	4						
Chloride, SM4500Cl-B	rng/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2011	ND	432	108	400	0.00	
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	12/20/2011	ND	184	92.1	200	1.05	
DRO >C10-C28	<10.0	10.0	12/20/2011	ND	193	96.5	200	6.51	
Surrogate: 1-Chlorooctane	84.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	103 9	% 57.6-15	8						

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Celey D. Keine



#### **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 D. Keens



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	75) 393-2326 FAX (575) 393-24									
Company Name:	Edie Sean Con	sullono	BILL TO			ANA	LYSIS RE	QUEST		
Project Manager:	Eddie Sean	7	P.O. #:							ı
Address: ( )	w Illinois		Company:							i
City: 12 aldras	State: NN	12ip: 88242	Attn:						.	ł
Phone #: 1 1	231 Fax#: 2.	1.249	Address						.	ı
Project #: CFC	Lay to Project Owner		City:							1
		MM. 01. 8012	State: Zip:		(0)					4
Project Location:	Maria & DIM	S. F 2	Phone #:	•	1 a					ł
Sampler Name: E	= 11	(Vadese)	Fax #:		(64)	4			1 1	1
FOR LAB USE ONLY	- Cara	MATRIX	PRESERV SAMPLI	NG	191					
1	,				٨ ير ٢	7				1
1		ERS ATER FER.			山土	١ ١				
Lab I.D.	Sample I.D.	8 8 8	S SE		HO	<b>*</b>				١
		(G)RAB O # CONTA GROUND WASTEW SOIL OIL SLUDGE	ACID/BAS ICE / COC OTHER:		00 17	4				- 1
HID2720			OTHER: ACID/BASE: ICE / COOL OTHER:	ПМЕ						┙
1 (	Colo H - V.	71 11	12/15	7:40	<u> </u>	<u> </u>				
7.	Ces B-V		1 12 15	8:20	ソソト	)   _				_
30	Jee C - V		1 12/18	6.30		<u>/</u>	ļ			
ય	Cel D-V	V 1 V	1215	10:25	4141	<u> </u>				_
5 0	1- 1 ese		1/1/15	1115	$\overline{\gamma}, \overline{J}, \overline{J}$	44				_
10	Call F-V		1 12/15	1: 50	<u> </u>	<del>-   -  </del>				4
	Esle G-V	NILLIN	12/15	2:45	<u> </u>	<u> </u>				_
ુ જુ	C-00 H - V	71 7	1215	3:30	YIV.	<u> </u>	ļ <u> </u>			_
<u>C</u> ( (	Cell L-V	X	12/15	4: 25	7 12 5	4	<b> </b>			-
PLEASE NOVE: Liability and	Damages, Cardinal's liability and client's exclusive remedy for	rany clain arising whether based is contra	d or tort, shall be limited to the equium pai	5: 15 \	<u> </u>	<u>/</u>	<u>i</u>		<u> </u>	لـ
analyses. All claims including t	those for negligence and any other cause whatsoever shall ti dinal be liable for incidental or consequental damages, include	e desmed waived unless made in writing ar	nd received by Cardinal within 30 days after	er completion; of the	applicable					
	out of or related to the performance of services hereunder b	Cardinal, regardless of whether such claim				□ No Add'i	Phone #:			_
SR .	0 1416	13 63	λ σ	Fax Result:	☐ Yes		Fax#:			$\exists$
Kalam W	Time: 2:30	s black it	endone_	REMARKS:						- 1
Relinquished By:	Date:	Received By:								
	Time:									
Delivered By:	(Circle One)	Sample Condi								
Sampler - UPS -	·	Cool Intact Yes Yes No No N	(Inlitials)		*					
Campion - Of O		Yes TYE	۱۵ الرابا ا	<u> </u>					<u> </u>	



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: ANALYSIS REQUEST BILL TO Project Manager: P.O. #: Address: LCO I in ore Company: State: NYM Zip: 85242 Fax#: 2.6949 Address Phone #: み・フュ Project Owner: J. Cogs City: Project Name: NM. 01: 2012 State: Zip: Project Location: Mon unt D.M. Set 3 Phone #: Sampler Name: Fax #: FOR LAS USE ONLY MATRIX PRESERV SAMPLING WASTEWATE SOIL Lab I.D. Sample I.D. ACID/BASE ICE / COOL HIDZYZQ DATE TIME 16 11:00 analyses. All claims including those for negligence and any other cause whatspever shall be deemed waived unless made in writing and received by Cardinal within 30 days ofter completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, ifigates or successors prising 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. Add'l Phone # Phone Result: ∐ Yes □ No Relinquished By: Received By: Fax Result: □ No Time: REMARKS: Date: Received By: Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact (Initials) Yes Yes Sampler - UPS - Bus - Other:



December 20, 2011

Eddie Seay

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM - TREATMENT ZONE

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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. Kuns

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:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

C & C LANDFARM - TREATMENT ZONE

Sample Received By:

Jodi Henson

Project Number: Project Location:

NONE GIVEN MONUMENT, NM

## Sample ID: CELL A-T (H102719-01)

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	12/19/2011	ND	416	104	400	3.77	
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	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	150	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	83.0	% 55.5-15	4			,			

Surrogate: 1-Chlorooctadecane 124% 57.6-158

## Sample ID: CELL B-T (H102719-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	·BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	104	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	88.8	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane 131 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTIE: Liability and Demogres. Canderel's liability and client's exclusive remedy for any cleam arising, whether passed in contract or tort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscorer shell be deemed welved unless made in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shell Cardinel be liable for incidental or consequential damages, including, without limitation, sushess 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 the services reneunder by Cardinel, regardless of whether such dalim is based upon any of the dowe 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.

Celeg & Keine



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

(505) 392-6949 Fax To:

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL C-T (H102719-03)

Chloride, SM4500CFB	mg,	/kg	
Analyte	Result	Reporting Limit	Ana

nalyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride <16.0 16.0 12/19/2011 ND 416 104 400 3.77 TPH 8015M S-HI mg/kg Analyzed By: MS Method Blank Analyte Result Reporting Limit Analyzed BS % Recovery True Value QC RPD Qualifier 12/18/2011 GRO C6-C10 200 <10.0 10.0 ND 206 103 2.85 DRO >C10-C28 243 12/18/2011 ND 181 90.3 200 10.0 5.56

Analyzed By: HM

Surrogate: 1-Chlorooctane

87.3%

55.5-154

Surrogate: 1-Chlorooctadecane

179%

152%

57.6-158

57.6-158

#### Sample ID: CELL D-T (H102719-04)

Chloride, SM4500CFB	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	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS				<del></del> ,	·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	162	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	82.6	% 55.5-15	4						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celay D. Keine



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

Fax To:

(505) 392-6949

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL E-T (H102719-05)

Chloride, SM4500CLB  Analyte	mg/kg		Analyzed By: HM				·	,	
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	187	10.0	12/18/2011	ND	181	90.3	200	5.56	

Surrogate: 1-Chlorooctane

85.1 %

55.5-154

Surrogate: 1-Chlorooctadecane

150%

57.6-158

#### Sample ID: CELL F-T (H102719-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	113	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	83.2	% 55.5-15	4	,					
Surrogate: 1-Chlorooctadecane	136	% 57.6-15	8						

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\*=Accredited Analyte

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Celey & Keine



Eddie Seay Consulting

Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

142%

57.6-158

MONUMENT, NM

## Sample ID: CELL G-T (H102719-07)

Chloride, SM4500Cl-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/19/2011	ND	416	104	400	3.77	
TPH 8015M mg/kg		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	126	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	77.1	% 55.5-15	4						

## Sample ID: CELL H-T (H102719-08)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2011	ND	416	104	400	3.77	
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	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	106	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	83.0	% 55.5-15	4						<del></del>
Surrogate: 1-Chlorooctadecane	134	% 57.6-15	8						

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\*=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:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL I-T (H102719-09)

Chloride, SM4500Cl-B Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg	mg/kg Analyzed By: MS		d By: MS			• • • • • • • • • • • • • • • • • • • •		S-HI
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	159	10.0	12/18/2011	ND	181	90.3	200	5.56	

Surrogate: 1-Chlorooctane

74.3%

55.5-154

Surrogate: 1-Chlorooctadecane

161 %

57.6-158

#### Sample ID: CELL J-T (H102719-10)

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	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-HI
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	327	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	75.4	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

210%

57.6-158

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Celey & Keens



**Eddie Seay Consulting** Eddie Seav 601 W. Illinois

Hobbs NM, 88242

(505) 392-6949 Fax To:

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL K-T (H102719-11)

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	12/19/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-HI
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	246	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	88.2	% 55.5-15	4		,	······································		· · · · · · · · · · · · · · · · · · ·	

Surrogate: 1-Chlorooctadecane

200%

224 %

57.6-158

57.6-158

#### Sample ID: CELL L-T (H102719-12)

Chloride, SM4500CFB	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	12/19/2011	ND	416	104	400	3.77		
TPH 8015M	mg	mg/kg Analyzed By: MS		d By: MS					S-HI	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85		
	-2010									

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & Keens



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

Fax To:

(505) 392-6949

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/20/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Cool & Intact

NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM

## Sample ID: CELL M-T (H102719-13)

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	12/19/2011	ND	416	104	400	3.77	٠
TPH 8015M	mg	/kg	Analyze	d By: MS			····		s-н <b>т</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
DRO >C10-C28	526	10.0	12/18/2011	ND	181	90.3	200	5.56	
Surrogate: 1-Chlorooctane	79.3	% 55.5-15	4		•				
Surrogate: 1-Chlorooctadecane	228	% 57.6-15	8						

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PLEASE NOTE: Librility and Demagos. Cardinal's liability and client's exclusive remedy for any claim arising, whether cased in contract or tort, shall-be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cases whestoever shall be deemed waived. In the sample 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 damogos, including, without limitation, pushess 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 the services netrunder by Cardinal, regardless of whether such claims is beset 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.

Celego Keno Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-HI High surrogate recovery was confirmed as a matrix effect by a second analysis.

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 (5	75) 393-2476		<u> </u>															
Company Name	Eddie Sea	y Cons	tiv:	tion	JIII.		LL_TO					ANA	LYSIS	REC	<b>QUES</b>	3T			
Project Manage		``		8	Р.	O. #:													
Address: Loo	1 W Illin	OK			Co	ompany:						ļ		. 1					
City: Haddo		State: WM	ip: C	824Z	At	· se				Į			] [	. [		-		[	
Phone #: 2-		ax #: 2 · 6			Αc	idress:	20		.		1			. 1		İ	ł	ł	
Project#: 🕒	-C Landform P	roject Owner:	3.	Cooper	Ci	ty:				]	-	ŀ		.		.	.	ĺ	
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Sampler Name:	Eldio Sean	(Troi	لتسا	Zone)	Fa	x #:				' \	Ì							1	
FOR LAB USE ONLY			$\int$	MATRIX		PRESERV.	SAMPL	ING	]	7		İ			ı İ		- 1	ł	
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analyses. All claims includi	nd Damages. Cardinal's liability and clients ng those for negligence and any other cause	whatspever shall be de	med wait	red unless made in witing i	and rec	eived by Cordinal (	within 30 days a	ter completion of (	the applicat	ile									
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476		
Company Name: Edie San Consulting	BILL TO	ANALYSIS REQUEST
Project Manager: Eddin Sen	P.O. #:	
Address: 601 w Ill work	Company:	
City: Hados State: NM Zip: 4824	Z Attn:	
Phone #: 2.2236 Fax #: 2.6949	Address:	
Project #: Che Lauthan Project Owner: J. Com	city:	
Project Name: CGC Landform NM . 01 · 00	17 State: Zip:	
Project Location: Monumet NM Set 3.	Phone #:	(\$198)
Sampler Name: Edd o Sam (Transput	Zena Fax#:	
	MATRIX PRESERV SAMPLING	
(C) (OMP) ERS		
VATER (C		
Lab I.D. Sample I.D.	34 SE SE SE SE SE SE SE SE SE SE SE SE SE	19311111
Tap I.D. Sample I.D. (3)RAB OR (CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: OTHER: OTHER: MIT	as 179
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PLEASE NOTE: Liability and Damages. Cardinar's liability and client's exclusive remedy for any claim arising whether	based in contract or fort, shall be Emited to the amount paid by the ci	Hent for the
analyzed. All dolins Including those for negligence and any other cause whatsoever chall be decimed waived unless in service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, busing	ade in writing and received by Cardinal within 30 days after complete	tion of the applicable
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, repardless of white Reliniquished By:    Date: 10   Received By		omerwse. ne Result: □ Yes □ No   Add'I Phone #:
	Fax R	Result: □ Yes □ No. Add'l Fax #: ARKS:
Dalu Wan Time 2:30		natio.
Relinquished By: Date: Received By	:	
Time:		·
	ople Condition   CHECKED BY:	
Sampler - UPS - Bus - Other:	Yes Yes (Initials)	Ä.

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

RE: C & C Landfarm (NM-01-0012) Vadose Zone Sampling Cell C, K, M

Mr. Jones:

I appreciate your phone conversation and help in trying to get our permit in good standing. As you suggested, I talked with the owners of C & C. They want me to move forward with the sampling of the three cells as (19-15-36E) recommends. I will send the results of the sampling as they are received.

If you have any questions, please let me know.

Thanks,

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

575-392-2236

seay04@leaco.net

cc: C & C Landfarm

RECEIVED OCD

# C & C Landfarm NM-01-0012 VADOSE ZONE SAMPLING

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

RE: C & C Landfarm (NM-01-0012)

Vadose Zone Sampling

Cells K & M

Mr. Jones:

Find enclosed the Vadose zone sampling as per (19-15-36E. The samples were taken at approximately four feet below the cell treatment zone. A backhoe was used to sample four random independent samples from each cell. After sampling, each sample hole was backfilled with red clay and clean soil and the treatment area returned and leveled.

Should you have any questions, please call.

Thanks,

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

seay04@leaco.net

cc: C & C Landfarm



May 19, 2011

**Eddie Seay** 

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM (NM-01-0012) VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 8:40.

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.

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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

#### Sample ID: CELL M - 1 (H100817-01)

Arsenic, 6010B	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
Arsenic	11.5	5.00	04/27/2011	ND	4.06	102	4.00	5.51	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	102	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	0.0570	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	04/28/2011	ND	432	108	400	0.00	
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	4.47	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper, 200.7	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	2.20	2.00	04/27/2011	ND	4.15	104	4.00	5.39	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. Keens



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 1 (H100817-01)

Fluoride, 4500F C	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Fluoride	2.42	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS.	% Recovery	True Value QC	RPD	Qualifie
(ron	3370	5.0	04/27/2011	ŃD	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	Qualifie
Lead	1.92	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Manganese	38.4	0.5	04/27/2011	ND	2.1	105	2.00	5.10	GAL
Hercury, 7471A	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
litrate + Nitrite as N, 353.2	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Nitrate/Nitrite as N	0.738	0.020	05/05/2011	ND	0.101	101	0.100	5.77	GAL
litrite as N 353.2	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
litrite as N	<0.020	0.020	04/29/2011	ND	0.107	107	0.100	0.00	· GAL
PAH 8270C	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

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\*=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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 1 (H100817-01)

PAH 8270C	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Naphthalene	<0.040	0.040	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND				•	
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	· ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	·
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	
Surrogate: Nitrobenzene-d5	111 9	% 35-114	!						
Surrogate: 2-Fluorobiphenyl	162 9	% 43-116							

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Celey & Keene



**Eddie Seay Consulting** 

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

Fax To:

(505) 392-6949

Analyzed By: CK

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

PAH 8270C

Sampling Type:

Soil

05/19/2011

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 1 (H100817-01)

7417 027 04	'''9	/ Ng	Andryze	a by: cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	29.2	% 33-141	1						
РСВ 8082	υg	/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	88.8	% 35-140	)						
Н	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ЭН	8.78	0.100	04/29/2011		7.12	102	7.00	0.114	•
henols, 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	0.385	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

#### Cardinal Laboratories

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 1 (H100817-01)

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	0.0315	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
TPH 8015M	mg/	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	
Surrogate: 1-Chlorooctane	84.8	% 70-130	)						
Surrogate: 1-Chlorooctadecane	86.2	% 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	Qualifie
Uranium	0.465	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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**Eddie Seay Consulting Eddie Seay** 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Analyzed By: CMS

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

**WQCC Volatiles 8260** 

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

C & C LANDFARM

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 1 (H100817-01)

WQCC VOIBUIES 0200	nig/	ky	Allalyzo	tu by. CM3					
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	<b>111</b> .	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	80.89	% 80-120	,						
Surrogate: Toluene-d8	103 %	6 80-120	ı						
Surrogate: 4-Bromofluorobenzene	86.0	% 80-120	1				·		
Zinc 200.7	mg/	kg đry wt.	Analyze	ed By: CK				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	16.6	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

#### Sample ID: CELL M - 2 (H100817-02)

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	2.35	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	94.9	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	0.0681	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	04/28/2011	ND	432	108	400	0.00	
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	4.30	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper, 200.7	mg,	kg dry wt.	Analyze	d By: CK		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	2.00	2.00	04/27/2011	ND	4.15	104	4.00	5.39	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. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 2 (H100817-02)

Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	1.63	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	3460	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	1.97	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	35.6	0.5	04/27/2011	ND	2.1	105	2.00	5.10	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	0.688	0.020	05/05/2011	ND	0.101	101	0.100	5.77	GAL
litrite as N 353.2	mg/	/kg	<sup>'</sup> Analyze	d By: CK			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	<0.020	0.020	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact -

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 2 (H100817-02)

PAH 8270C	mg/kg		, Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	

Surrogate: Nitrobenzene-d5 115 % 35-114 Surrogate: 2-Fluorobiphenyl 167% 43-116

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 2 (H100817-02)

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	30.8	% 33-141							
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-SS
Surrogate: Tetrachloro-meta-xylene	80.0	% 35-140	)						
pH	рН	Units	Analyze	d By: HM			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
pH	8.76	0.100	04/29/2011		7.12	102	7.00	0.114	
Phenois, 420.1	mg	/kg dry wt.	Analyze	d 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					•
Analyte ´	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	0.410	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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**Eddie Seay Consulting** 

(505) 392-6949

Eddie Seay 601 W. Illinois

Hobbs NM, 88242

Fax To:

SECTION 3 MONUMENT, NM

Sampling Date:

04/20/2011

Received: Reported: 04/21/2011

Sampling Type:

Soil

05/19/2011

Project Name: Project Number: C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Location:

C & C LANDFARM

Sample Received By:

Jodi Henson

Sample ID: CELL M - 2 (H100817-02)

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	0.0336	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
TPH 8015M	mg/	'kg	Analyze	d By: ck					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	
Surrogate: 1-Chlorooctane	86.1	% 70-130	)						
Surrogate: 1-Chlorooctadecane	87.5	% 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	0.430	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 <sub>.</sub>	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 & Keens



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

Fax To: (505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Project Location:

SECTION 3 MONUMENT, NM

Sample Received By:

Jodi Henson

## Sample ID: CELL M - 2 (H100817-02)

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-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	79.3 %	6 80-120							
Surrogate: Toluene-d8	104 %	80-120							
Surrogate: 4-Bromofluorobenzene	86.9 %	6 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	16.8	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 3 (H100817-03)

Arsenic, 6010B	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	14.5	5.00	04/27/2011	ND.	4.06	102	4.00	5.51	, GAL
Barium, 60108	mg,	/kg dry wt.	Analyze	ed By: CK			-18		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3arium -	110	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	0.0629	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2011	ND	432	108	400	0.00	
Chromium, 6010B	mg,	/kg dry wt.	Analyze	ed By: CK		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	4.11	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper, 200.7	mg,	kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	2.31	2.00	04/27/2011	ND	4.15	104	4.00	5.39	GAL
yanide 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

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Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

Project Location:

C & C LANDFARM

SECTION 3 MONUMENT, NM

Sample Received By:

Jodi Henson

Sample ID: CELL M - 3 (H100817-03)

luoride, 4500F C	mg	mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	3.09	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	3200	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
Lead	1.79	0.05	05/03/2011	· ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7	mg	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	45.5	0.5	04/27/2011	ND	2.1	105	2.00	5.10	GAL
Mercury, 7471A	mg	/kg dry wt.	Analyze	ed 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
litrate + Nitrite as N, 353.2	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	0.986	0.020	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	<0.020	0.020	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C	mg,	/kg	Analyze	ed By: CK	·	<del>.</del>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_									

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(505) 392-6949 Fax To:

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

C & C LANDFARM

Sample Received By:

Jodi Henson

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 3 (H100817-03)

PAH 8270C	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Naphthalene	<0.040	0.040	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND			•		
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	•
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	. ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	. ND	0.010	95.1	0.0100	6.40	

Surrogate: 2-Fluorobiphenyl

132 % 43-116

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Fax To:

(505) 392-6949

Analyzed By: CK

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

DAH 9270C

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

maika

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 3 (H100817-03)

PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	26.9	% 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	98.4	% 35-140							
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.75	0.100	04/29/2011		7.12	102	7.00	0.114	
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	0.501	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celeg D. Kune



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Fax To: (505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

C & C LANDFARM

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 3 (H100817-03)

Silver 200.8	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0400	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
TPH 8015M	mg/	/kg	Analyze	ed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	, DN	202	101	200	3.20	
Surrogate: 1-Chlorooctane	96.1	% 70-130	)	<del>,</del> ,					
Surrogate: I-Chlorooctadecane	101 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	Qualifier
Uranium	0.799	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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Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

C & C LANDFARM

Project Location:

SECTION 3 MONUMENT, NM

Sample Received By:

Jodi Henson

Sample ID: CELL M - 3 (H100817-03)

WQCC Volatiles 8260	mg/l	(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	78.9 %	80-120	16,10						
Surrogate: Toluene-d8	103 %	80-120							
Surrogate: 4-Bromofluorobenzene	84.6 %	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	16.6	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

C & C LANDFARM

Project Location: SECTION 3 MONUMENT, NM

Sample ID: CELL M - 4 (H100817-04)

rsenic 200.8	mg/	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
rsenic	0.985	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL
arium, 6010B	mg/	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
arium	58.8	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL
admium 200.8	mg/	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
admium	0.0587	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL
hloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	<16.0	16.0	04/28/2011	ND	432	108	400	0.00	
hromium, 6010B	mg/	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hromium	3.74	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
opper 200.8	mg/	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
opper	1.15	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL
yanide 335.4	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
yanide (total)	<0.0400	0.0400	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL
uoride, 4500F C	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank					

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\*=Accredited Analyte

any other cause whatsoever shall be deemed walved 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, whose 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 it one, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above solited reasons or otherwise. Results relate only to the samples identified above. This report shall not be recroduced exceed in fall with waiter approach of control of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above solited reasons or otherwise. Results relate only to the samples identified above. This report shall not be recroduced exceed in fall with waiter approach of control of the services hereunder by claim is the samples identified above.



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 4 (H100817-04)

Fluoride, 4500F C	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Fluoride	0.780	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Iron	3210	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	Qualifie
Lead	1.99	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	Qualifie
Manganese	31.9	0.5	04/27/2011	ND	2.1	105	2.00	5.10	GAL
Mercury, 7471A	mg,	/kg dry wt.	Analyze	ed By: CK					
An <b>aly</b> te	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	0.502	0.020	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	· Qualifie
Nitrite as N	0.023	0.020	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 4 (H100817-04)

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	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	· ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	
Surrogate: Nitrobenzene-d5	124 9	% 35-114							<del></del>

43-116

Surrogate: 2-Fluorobiphenyl

211%

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Celey & Keene



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Project Location:

SECTION 3 MONUMENT, NM

Sample Received By:

Jodi Henson

Sample ID: CELL M - 4 (H100817-04)

PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte ,	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	37.1	% 33-141	i						
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	81.0	% 35-140	1						
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.78	0.100	04/29/2011		7.12	102	7.00	0.114	
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	0.237	0.100	05/03/2011	ND	0.258	103	0.250	1.54	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 4 (H100817-04)

Silver 200.8	mg,	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0275	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
TPH 8015M	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	
Surrogate: 1-Chlorooctane	83.7	% 70-130	)			4			
Surrogate: 1-Chlorooctadecane	81.6	% 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	0.227	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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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL M - 4 (H100817-04)

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-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	79.4 %	6 80-120							
Surrogate: Toluene-d8	104 %	80-120							
Surrogate: 4-Bromofluorobenzene	84.7 %	6 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	14.7	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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Celey D. Keene



Insufficient time to reach temperature.

#### **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.

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

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Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100817-01

Sample ID: CELL M-1

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Page 27 of 34

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 15.19

<del></del>	<0.84				
	-0.04	N/A	<0.03	N/A   EI	PA 901.1M
Ra - 228	<0.37	N/A	<0.01	N/A E	PA 901.1M
					gangamen ik mpuntahan dalam ganggangan and
Notes:	~~~				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Analyses subcontracted to Xenco Laboratories.

H100817NORM EDDIE



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100817-02

Sample ID: CELL M-2

Sampling Date: 04/20/11 Sample Type: SOIL

Sample Type, SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analysis Date: 04/26/11 Analysis Time: 15:34

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.83	N/A	<0.03	N/A	EPA 901.1M
Ra - 228	<0.29	N/A	<0.01	N/A	EPA 901.1M
otes:		<del></del>	1	-!	

Analyses subcontracted to Xenco Laboratories.

H100817NORM EDDIE

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Page 28 of 34



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01:0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100817-03

Sample ID: CELL M-3.

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 15.58

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/-,2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<1.11	N/A	<0.04	N/A	EPA 901.1M
Ra - 228	<0.40	N/A	<0.01	N/A	EPA 901.1M
lotes:					

Analyses subcontracted to Xenco Laboratories.

Chemist

H100817NORM EDDIE



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100817-04

Sample ID: CELL M-4

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analyzed By: BB

Analysis Date: 04/26/11 Analysis Time: 16:12

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bg/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.65	N/A	<0.02	N/A	EPA 901.1M
Ra - 228	<0.31	N/A	<0.01	N/A	EPA.901.1M
	ant the state of t		<u> </u>		
lotes:					<del>`*</del>
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•				-	

Analyses subcontracted to Xenco Laboratories.

Chemist

H100817NORM EDDIE

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Page 30 of 34



## Notes:

#### Comments:

- Soil and Sludge analysis results are reported on a wet basis or as received basis unless otherwise indicated.
- 2. The data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 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.
- 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).
- 7. U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only)
- 8. 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.
- 5. 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.	В	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.
I.J.	N/A	Not applicable.
1.1. 12.	MDA	Minimum detectable activity.



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**ANALYSIS REQUEST** 

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

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13/14-70



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

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**†** •



May 19, 2011

Eddie Seay

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM (NM-01-0012) VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 8:40.

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.

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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

## Sample ID: CELL K - 1 (H100816-01)

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	1.90	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	98.2	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	0.0633	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	04/28/2011	ND	432	108	400	0.00	
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	4.81	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	′ <b>1.44</b>	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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\*=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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

## Sample ID: CELL K - 1 (H100816-01)

Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	3.58	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	3890	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	1.78	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	49.2	0.5	04/27/2011	ND	2.1	105	2.00	5.10	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	0.455	0.020	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	<0.020	0.020	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. Keene



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Project Number: Project Location: C & C LANDFARM

Sample Received By:

Jodi Henson

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 1 (H100816-01)

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	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	. ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	

Surrogate: 2-Fluorobiphenyl 138 % 43-116

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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 liable 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 the 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 reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Analyzed By: CK

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

D. - '- - L. N.-

DAH 9270C

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name:

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Sampling Condition.

COOI & Intact

Project Number:

C & C LANDFARM

ma/ka

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 1 (H100816-01)

PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	28.1	% 33-141							
PCB 8082	ug/	/kg	Analyze	d By: CK					
Analyte	Result <sup>/</sup>	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
CB 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-xylend	e 88.7	% 35-140							
Н	рН	Units	Analyze	d By: HM					
Analyte	. Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
н	8.77	0.100	04/29/2011		7.08	101	7.00	0.706	
henols, 420.1	mg	/kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
henols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL
elenium 200.8	mg	/kg dry wt.	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 1 (H100816-01)

Silver 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Silver	0.0386	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4	mg/	'kg	Analyze	d By: HM			-	i	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Sulfate	<40.0	40.0	04/29/2011	ND	38.1	95.2	40.0	3.95	
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	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	<10.0	10.0	04/23/2011	ND	200	99.8	200	1.84	
Surrogate: 1-Chlorooctane	108 9	% 70-130	)						
Surrogate: 1-Chlorooctadecane	116	% 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	0.784	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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\*=Accredited Analyte

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 1 (H100816-01)

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-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	82.3	% 80-120							
Surrogate: Toluene-d8	103 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	88.9	% 80-120							
Zinc 200.7	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	18.7	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Cool & Intact

Project Number:

C & C LANDFARM

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

## Sample ID: CELL K - 2 (H100816-02)

Arsenic 200.8	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Arsenic	1.90	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL
Barium, 6010B	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Barium	102	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	0.0820	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	04/28/2011	ND	432	108	400	0.00	
Chromium, 6010B	mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chromium	5.70	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL
Copper, 200.7	, mg,	/kg dry wt.	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Copper	2.06	2.00	04/27/2011	ND	4.15	104	4.00	5.39	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:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

### Sample ID: CELL K - 2 (H100816-02)

Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	2.42	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	4830	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	2.28	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	75.9	0.5	04/27/2011	ND	2.1	105	2.00	5.10	GAL
Mercury, 7471A	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	0.485	0.020	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	<0.020	0.020	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 OC	RPD	Qualifier

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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Project Location:

Sample Received By:

Jodi Henson

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 2 (H100816-02)

PAH 8270C	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Naphthalene	<0.040	0.040	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	

Surrogate: 2-Fluorobiphenyl

119%

43-116

Cardinal Laboratories

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 2 (H100816-02)

PAH 8270C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	30.2	% 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: Tetrachloro-meta-xylene	89.5	% 35-140							
Н	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH	8.68	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
Phenois	<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	Qualifie
Selenium	0.439	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celey & Keene



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

Fax To: (505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 2 (H100816-02)

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	0.0436	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
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	04/23/2011	ND	207	104	200	6.50	
DRO >C10-C28	<10.0	10.0	04/23/2011	ND	200	99.8	200	1.84	
Surrogate: 1-Chlorooctane	92.1	% 70-130	)						
Surrogate: 1-Chlorooctadecane	100 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	Qualifier
Uranium	0.686	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260	mg,	'kg	Analyze	d By: CMS					
Ana <b>l</b> yte	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

Analyzed By: CMS

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

**WQCC Volatiles 8260** 

Soil

05/19/2011

Sampling Type:

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 2 (H100816-02)

11466 10000102 0206	9/	~9	741.617=0					· · · · · · · · · · · · · · · · · · ·	
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	81.5	% 80-120							
Surrogate: Toluene-d8 '	103 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	88.5	% 80-120							
Zinc 200.7	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	20.4	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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Celey D. Keena



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

Fax To: (505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

#### Sample ID: CELL K - 3 (H100816-03)

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	3.57	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	173	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	0.0599	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	04/28/2011	ND	432	108	400	0.00	
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	5.05	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	1.07	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL
Cyanide 335.4	. mg/	'kg	Anaiyze	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

### Sample ID: CELL K - 3 (H100816-03)

Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	6.78	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	3770	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	1.95	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	38.3	0.5	04/27/2011	ND.	2.1	105	2.00	5.10	GAL
Mercury, 7471A	mg,	/kg dry wt.	Analyze	d By: CK		ī	•		
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	0.564	0.020	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	<0.020	0.020	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Project Number:

C & C LANDFARM

Sampling Condition:

Cool & Intact

Project Location:

SECTION 3 MONUMENT, NM

Sample Received By:

Jodi Henson

### Sample ID: CELL K - 3 (H100816-03)

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	٠ ر
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	160	% 35-114	1						

Surrogate: 2-Fluorobiphenyl

%

43-116

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

Project Name:

05/19/2011 C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Number:

Project Location: SECTION 3 MONUMENT, NM

#### Sample ID: CELL K - 3 (H100816-03)

PAH 8270C	mg	/kg	Analyze	d By: CK					
Analyte -	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	47.8	% 33-141	1						
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	87.5	% 35-140	)						
pH	pH	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.76	0.100	04/29/2011		7.12	102	7.00	0.114	
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	0.416	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celey & Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Number: Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 3 (H100816-03)

0.0500 2.99 GA	True Value QC 0.0500 True Value QC	,	BS 0.0494	Method Blank	Analyzed	Reporting Limit	Result	Analyte
value QC RPD Qual	·	98.8 0.0500	0.0494	ND				raidiyee
	True Value QC			ND	05/03/2011	0.0050	0.0470	Silver
	True Value QC			d By: HM	Analyze	'kg	mg/	Sulfate 375.4
40.0 3.95		% Recovery True Value QC	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
	40.0	95.2 40.0	38.1	ND	04/29/2011	40.0	<40.0	Sulfate
				d By: AB	Analyze	/kg	mg/	TPH 8015M
e Value QC RPD Qual	True Value QC	% Recovery True Value QC	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
200 6.50	200	104 200	207	ND	04/23/2011	10.0	<10.0	GRO C6-C10
200 1.84	200	99.8 200	200	ND	04/23/2011	10.0	<10.0	DRO >C10-C28
					1	% 70-130	106 9	Surrogate: 1-Chlorooctane
•					)	% 70-130	115 9	Surrogate: 1-Chlorooctadecane
				d By: CK	Analyze	kg dry wt.	mg/	Uranium 200.8
e Value QC RPD Qual	True Value QC	% Recovery True Value QC	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
0.0500 0.00 GA	0.0500	99.6 0.0500	0.0498	ND	05/03/2011	0.0500	1.16	Uranium
				d By: CMS	Analyze	kg	mg/	WQCC Volatiles 8260
e Value QC RPD Qual	True Value QC	% Recovery True Value QC	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
1.00 5.96	1.00	97.3 1.00	0.973	ND	04/27/2011	0.0500	<0.0500	Vinyl chloride
1.00 5.06	1.00	104 1.00	1.04	ND	04/27/2011	0.0500	<0.0500	1,1-Dichloroethene
1.00 9.11	1.00	81.0 1.00	0.810	ND	04/27/2011	0.0500	<0.0500	Methylene chloride
1.00 6.87	1.00	110 1.00	1.10	ND	04/27/2011	0.0500	<0.0500	1,1-Dichloroethane
1.00 6.04	1.00	104 1.00	1.04	ND	04/27/2011	0.0500	<0.0500	Chloroform
		113 1.00	1.13	ND	04/27/2011	0.0500	<0.0500	Carbon totrachlorido
	:	97.3 104 81.0 110	0.973 1.04 0.810 1.10 1.04	Method Blank ND ND ND ND ND ND ND	Analyzed 04/27/2011 04/27/2011 04/27/2011 04/27/2011 04/27/2011	Reporting Limit 0.0500 0.0500 0.0500 0.0500 0.0500	Result <0.0500 <0.0500 <0.0500 <0.0500 <0.0500	Analyte Vinyl chloride 1,1-Dichloroethene Methylene chloride 1,1-Dichloroethane Chloroform Carbon tetrachloride

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Celey D. Keine



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

(505) 392-6949

Fax To:

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE C & C LANDFARM

Project Number:

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

#### Sample ID: CELL K - 3 (H100816-03)

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	79.9	% 80-120							
Surrogate: Toluene-d8	103 9	80-120							
Surrogate: 4-Bromofluorobenzene	86.3	% 80-120							
Zinc 200.7	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	16.6	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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

(505) 392-6949 Fax To:

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

#### Sample ID: CELL K - 4 (H100816-04)

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	3.10	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	157	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	0.0636	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	04/28/2011	ND	432	108	400	0.00	
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	5.70	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	1.28	0.0100	05/03/2011	NĐ	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:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 4 (H100816-04)

Fluoride, 4500F C	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	5.57	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	4220	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	2.00	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	47.2	0.5	04/27/2011	ND	2.1	105	2.00	5.10	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	0.677	0.020	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2	mg,	/kg	Analyze	d By: CK					
Analyte	lyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	<0.020	0.020	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C			Analyze	d By: CK					
Analyte			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

Analyzed By: CK

Received: \_

04/21/2011

Sampling Date:

04/20/2011

Reported:

PAH 8270C

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 4 (H100816-04)

	31	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/17/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/17/2011	ND		•			
1-Methylnaphthalene	<0.040	0.040	05/17/2011	ND					
Acenaphthylene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/17/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/17/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/17/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/17/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/17/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/17/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/17/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]flouranthene	<0.040	0.040	05/17/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/17/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/17/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/17/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/17/2011	ND	0.010	95.1	0.0100	6.40	

Surrogate: 2-Fluorobiphenyl

154 %

43-116

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Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

Sampling Type:

Soil

05/19/2011

Cool & Intact

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 4 (H100816-04)

PAH 8270C	mg	/kg	Analyze	ed By: CK	14				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-dl4	27.7	% 33-141	i						
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					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	85.7	% 35-140	)						
рН	рН	Units	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.77	0.100	04/29/2011		7.12	102	7.00	0.114	
Phenols, 420.1	mg	/kg dry wt.	Analyze	ed 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	ed By: CK				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	0.462	0.100	05/03/2011	ND	0.258	103	0.250	1.54	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:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

Sample ID: CELL K - 4 (H100816-04)

Silver 200.8	mg/	kg dry wt.	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0486	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	04/29/2011	ND	38.1	95.2	40.0	3.95	
TPH 8015M	mg/	kg	Analyze	d By: ck			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	214	107	200	0.572	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	206	103	200	4.93	
Surrogate: 1-Chlorooctane	87.3	% 70-130	)						
Surrogate: 1-Chlorooctadecane	88.9	% 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	Qualifier
Uranium	1.08	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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Celey & Keine



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

Fax To: (505) 392-6949

Received:

04/21/2011

Sampling Date:

04/20/2011

Reported:

05/19/2011

Sampling Type:

Soil

C & C LANDFARM (NM-01-0012) VADOSE

Sampling Condition:

Cool & Intact

Project Name:

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

SECTION 3 MONUMENT, NM

### Sample ID: CELL K - 4 (H100816-04)

WQCC Volatiles 8260	mg/k	rg .	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	81.4 %	6 80-120							
Surrogate: Toluene-d8	103 %	80-120							
Surrogate: 4-Bromofluorobenzene	86.7%	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	18.7	5.0	04/27/2011	ND	2.0	99.5	2.00	5.38	GAL

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Celey D. Keene



### **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 D. Keena



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100816-01

Sample ID: CELL K-1

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Page 27 of 34

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 12:58

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/2s)	Analysis Test Method
Ra - 226	<0.80	N/A	<0.03	N/A	EPA 901.1M
Ra - 228	<0.24	N/A	<0.01	N/A	EPA:901.1M
	mani ereste anaman estatorian e ese e e e e e e e e e e e e e e e e			ngan aran taran manangah atah samur yagangadan manan Manan manan dap Yagandan manan mayariy tagan ngangan manan	
Notes:					·
-					

Analyses subcontracted to Xenco Laboratories.

#### H100816NORM EDDIE



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100816-02

Sample ID: CELL K-2

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample:Received By: JH

Analyzed By: BB

Analysis Date: 04/26/11 Analysis Time: 13:19

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/-2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.75	N/A	<0.03	N/A	EPA 901.1M
Ra - 228	<0.29	N/A	<0.01	N/A	EPA 901.1M
		The state of the s	1		
lotes:			•		7.7°

Analyses subcontracted to Xenco Laboratories.

H100816NORM EDDIE

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Page 28 of 34



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM

Laboratory Number: H100816-03

Sample ID: CELL K-3

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Sample Received By: JH

Analysis Date: 04/26/11 Analysis Time: 13:53

Analysis Description	Analyşis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bg/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<1.12	N/A	<0.04	N/A	EPA 901.1M
Ra - 228	<0.39	N/A	<0.01	N/A	EPA 901.1M
	يىقدۇلىمىدۇلىرىكىچىرىدىدىدىدىدىدى چېچىدىد		1		
tes:					

Analyses subcontracted to Xenco Laboratories.

Chemist

H100816NORM EDDIE

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Page 29 of 34



Receiving Date: 04/21/11 Reporting Date: 05/10/11

Project Number: C & C LANDFARM

Project Name: C & C LANDFARM (NM-01-0012) VADOSE

Project Location: SECTION 3 MONUMENT, NM.

Laboratory Number: H100816-04

Sample ID: CELLK-4

Sampling Date: 04/20/11

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 4°C

Page 30 of 34

Sample Received By: JH

Analyzed By: BB Analysis Date: 04/26/11 Analysis Time: 14:47

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<1.09	N/A	<0:04	N/A	EPA-901.1M
Ra - 228,	<0.41	N/A	<0.02	N/A	EPA 901.1M
		<u> </u>			
Notes:				· · · · ·	

Analyses subcontracted to Xenco Laboratories.

H100816NORM EDDIE



#### Notes:

#### Comments:

- 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.
- 6. Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only)
- 7. U-238 is: determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only)
- 8. All Gamma Spectroscopy was performed using high purity germanium detectors (HPGE).

### Method References:

- 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>B</b>	Method Blank.
5.	₽D	Method Duplicate.
6.	MS	Matrix Spike.
7.	<b>S</b>	Spike.
8.	RS	Reference Spike.
9.	ŞC	Subcontracted to qualified laboratory.
10.	,NR	Not Referenced.
11.	N/A	Not applicable.
12.	MDA	Minimum detectable activity.



Company Name: Eddie Society Conscitution Project Manager: Eddie Society Conscitution Project Manager: Eddie Society Company:  City: Hololos State: NM Zip: 98247 Attn:  Phone 8: 392. 2736 Fax 8: 392. 1949 Address: Question Project Date: State: NM Zip: 98247 Attn:  Project Received R			FAX (575) 393-247							•																	
Address: Sol Situs NM Zip: \$8247 Attri  City: Holds State: NM Zip: \$8247 Attri  For Sity: Holds State: NM Zip: \$8247 Attri  For Jan Sity: Sample I.D. City: State: Zip: Project Name: C+C Londown (DM-v1-col2) Values State: Zip: Project Location: S. T. 3 Warner N. M. ATRIX PRESERV SAMPLING  Lab I.D. Sample I			Sany Con	Sı	7	Lin	6					B	}//£	L TO		aron.	,			ANAI	LYSIS	RE	QUE	ST	· · · · · ·		
City: Holds  State: MM zip: \$8247	Project Manage		Sim,				•			P.C	), #.				<del></del>	1									- 1		1
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NMOCD Environmental ATTN: Brad Jones 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm (NM-01-0012)
Semi-Annual
Vadose & Treatment Zone Sampling

Mr. Jones:

Find within the semi-annual sampling for C & C as required.

C & C continues to disk the cells as the guidelines require and maintained the facility as permitted.

Should you have any questions or need additional information, please let me know.

Sincerely,

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

Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: C & C Landfarm



August 02, 2011

**Eddie Seay** 

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM - TREATMENT ZONE

Enclosed are the results of analyses for samples received by the laboratory on 07/29/11 14:20.

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

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

C & C LANDFARM - TREATMENT ZONE

Sample Received By:

Jodi Henson

Project Number: Project Location: C & C LANDFARM MONUMENT, NM

99.2%

70-130

#### Sample ID: CELL A - T (H101582-01)

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	08/01/2011	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	08/01/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	287	10.0	08/01/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	96.6	% 70-130	)						······································

#### Sample ID: CELL B - T (H101582-02)

Surrogate: 1-Chlorooctadecane

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	08/01/2011	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	08/01/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	23.0	10.0	08/01/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	79.2	% 70-130	·				.,		
Surrogate: 1-Chlorooctadecane	84.4	% 70-130	)						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Lidblithy and Demagos. Cardinal's liability and client's exclusive remedy for any claim arising, whether passed 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 whotsoever shall be deemed walved unless made in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall Cardinel be liable for incidental or correspondituding, without limitation, pushess 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 the services nervender by Cardinel, regardless of whether such datin 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 Cardinel Laboratories.

Celey D. Keene



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

Fax To: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

83.4%

70-130

### Sample ID: CELL C - T (H101582-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	196	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	87.7	% 70-130	)						

# Sample ID: CELL D - T (H101582-04)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM				<del> </del>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	11.1	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	84.9	% 70-130	)						
Surrogate: 1-Chlorooctadecane	87. <b>3</b>	% 70-130	)						

#### \*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client'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 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 liable for incidental or consequential damages, including, without limitation, pushess 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 the services nervender 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.

Celeg D. Keene



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

Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

70-130

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

82.9%

### Sample ID: CELL E - T (H101582-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM		<del> </del>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	325	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	80.5	% 70-130	)						

# Sample ID: CELL F - T (H101582-06)

Surrogate: 1-Chlorooctadecane

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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	202	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	84.8	% 70-130							· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	86.6	% 70-130	1						

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\*=Accredited Analyte

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Celey & Keens



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

Fax To:

o: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL G - T (H101582-07)

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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	103	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	79.0	% 70-130							
Surrogate: 1-Chlorooctadecane	70.9	% 70-130							

#### Sample ID: CELL H- T (H101582-08)

Surrogate: 1-Chlorooctadecane

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	08/01/2011	ND	432	108	400	3.64	
ГРН 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	08/02/2011	ND	185	92.5	200	0.997	
ORO >C10-C28	349	10.0	08/02/2011	ND	172	85.9	200	0.938	

### Cardinal Laboratories

85.0%

70-130

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability 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 daims, 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 liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profiles incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nereunder 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 reproduced except in full with written approved of Cardinal Laboratories.

Celey & Keine



**Eddie Seay Consulting** Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM

88.7%

70-130

#### Sample ID: CELL I- T (H101582-09)

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	08/01/2011	ND	432	108	400	3.64	
TPH 8015M	mg,	mg/kg Analyzed By: ab				· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.3	10.0	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	1560	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	82.1	% 70-130	)						

#### Sample ID: CELL J-T (H101582-10)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CFB  Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	435	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	77.5	% 70-130	)		,		<u>.</u>		
Surrogate: 1-Chlorooctadecane	73.3	% 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:

07/29/2011

Sampling Date:

07/28/2011

Reported:

Sampling Type:

Soil

Project Name:

08/02/2011 C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL K- T (H101582-11)

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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	345	10.0	08/02/2011	ND	172	85.9	200	0.938	

Surrogate: 1-Chlorooctane

80.2 %

70-130

Surrogate: 1-Chlorooctadecane

81.2%

70-130

# Sample ID: CELL L- T (H101582-12)

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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	1620	50.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	78.2	% 70-130				· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	83.5	% 70-130	)						

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine



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

(505) 392-6949 Fax To:

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/02/2011

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

C & C LANDFARM - TREATMENT ZONE

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

# Sample ID: CELL M- T (H101582-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					<del> </del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	648	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	87.6	% 70-130	<u> </u>						
Surrogate: 1-Chlorooctadecane	92.3	% 70-130	)						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keine Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



#### **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 D. Keine

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Eddie Sen	. Cons	Mi	la.			BILI	1.70					AN	ALYSI	S RE	QUE	ST			·
Project Manager:	Eddie Sea			<b>3</b>	Р.	O. #:													·	
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	BULL S.	a. Consi	. DZ	114.0					Ė	31L	L TO	<b>5</b>	CVIII					NAL	YSIS	RE	QUES	ST			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



August 03, 2011

**Eddie Seay** 

**Eddie Seay Consulting** 

601 W. Illinois

Hobbs, NM 88242

RE: C & C LANDFARM - VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 07/29/11 14:20.

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.

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:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location: C & C LANDFARM

MONUMENT, NM

Sample ID: CELL A - V (H101583-01)

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	08/02/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/02/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/02/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/02/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 70-130	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				<u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	80.5	% 70-130	1						-
Surrogate: 1-Chlorooctadecane	74.0	% 70-130	)						

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\*=Accredited Analyte

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Celeg & Keene



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

Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL B- V (H101583-02)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	86.1	% 70-130	)					· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	91.8	% 70-130	)						

# Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keens



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

Fax To: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL C- V (H101583-03)

BTEX 8021B	mg	/kg	Analyze	d By: CMS				· <u>·</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101 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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	87.6	% 70-130						·	· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	91.6	% 70-130							

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Celeg D. Keine



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

Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL D- V (H101583-04)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	72.0	72.0 % 70-130							
Surrogate: 1-Chlorooctadecane	73.3	% 70-130	ı						

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Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/28/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

89.6%

70-130

Sample ID: CELL E- V (H101583-05)

BTEX 80218	mg/	/kg	Analyze	d By: CMS			- <u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 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	08/01/2011	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	87.0	% 70-130							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keine



Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL F - V (H101583-06)

BTEX 8021B	mg/l	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101 %	5 70-130							
Chloride, SM4500CI-B	mg/l	tg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2011	ND	432	108	400	3.64	
TPH 8015M	mg/l	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	08/02/2011	ND	185	92.5	200	0.997	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	172	85.9	200	0.938	
Surrogate: 1-Chlorooctane	87.2 %	6 70-130							
Surrogate: 1-Chlorooctadecane	88.4 %	6 70-130				,			

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Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL G - V (H101583-07)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	80.2	% 70-130	1						
Surrogate: 1-Chlorooctadecane	70.0	% 70-130	l						

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Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

#### Sample ID: CELL H - V (H101583-08)

BTEX 8021B	mg/	kg	Analyze	d By: CMS	<del></del>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 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	08/01/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ab					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	74.3	% 70-130							
Surrogate: 1-Chlorooctadecane	69.0	% 70-130	ı						•

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

Fax To:

o: (505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL I - V (H101583-09)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 70-130							
Chioride, \$M4500Cl-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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	91.4	% 70-130							
Surrogate: 1-Chlorooctadecane	90.8	% 70-130							

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Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Samp	łe ID	: CELL ]	J - V (	(H101	583-10)
------	-------	----------	---------	-------	---------

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	84.8	% 70-130				· · · · · · · · · · · · · · · · · · ·		·····	
Surrogate: 1-Chlorooctadecane	88.8	% 70-130							

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

Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

Sampling Type:

Soil

Project Name:

08/03/2011

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

C & C LANDFARM - VADOSE ZONE

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL K - V (H101583-11)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	99.09	6 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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	84.99	6 70-130							
Surrogate: 1-Chlorooctadecane	87.89	6 70-130	,						

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Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

### Sample ID: CELL L - V (H101583-12)

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	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	91.7	% 70-130							
Surrogate: 1-Chlorooctadecane	94.3	% 70-130							

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



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

Fax To:

(505) 392-6949

Received:

07/29/2011

Sampling Date:

07/29/2011

Reported:

08/03/2011

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM

Sample ID: CELL M - V (H101583-13)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Ánalyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2011	ND	1.74	87.2	2.00	5.01	
Toluene*	<0.050	0.050	08/01/2011	ND	1.69	84.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	08/01/2011	ND	1.73	86.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	08/01/2011	ND	5.20	86.7	6.00	3.03	
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 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	08/01/2011	ND	448	112	400	0.00	
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	08/02/2011	ND	169	84.5	200	5.68	
DRO >C10-C28	<10.0	10.0	08/02/2011	ND	146	73.1	200	2.09	
Surrogate: 1-Chlorooctane	78.5	% 70-130	)	-					
Surrogate: 1-Chlorooctadecane	70.4	% 70-130	)						

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\*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and clern's exclusive remedy for any claim arising, whether passed 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 whotsoever shall be deemed wathed 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 client, its subsidiaries, affiliates or successors arising out of or related to the performance of the 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 reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Eggin Down Congoverno		ER	ANALISIS REQ	UEST
Project Manager: Edice W Seasy	P.O. #:			
Address: Lot w Illinois	Company:			
City: Holdes State: NM Zip: \$8242	Attn:	_		
Phone #: 2-2234 Fax #: 2-6949	Address:			
Project #: CAC Landform Project Owner: J. Cooper	city: O			
Project Name: (Le Lon How (NM 9013) Vadose	- 1			
Project Location: Manuary W.M. S. 13	Phone #:			
Sampler Name: Edd to Seas	Fax #:			
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING			
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in co analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writin	ng and received by Cardinal within 30 days after completion of	of the applicable		
service. In no event shall Cardinal be Bable for Incidental or consequental damages, including without limitation, business interrupt diffiliates or successors existing out of or related to the performance of services hereunder by Cardinal, reperdess of whether such		wise.		
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Relinquished By: Date: Received By:				
Time:		ř		
	-dillo- CUECKED BV:			
Delivered By: (Circle One) Sample Co	ndition CHECKED BY:			
Sampler - UPS - Bus - Other:	Yes No	*		
† Cardinal cannot accept verbal changes. Please fax written changes		Ė.	······································	Page
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Toplet Manager: Fill College of the	Company Name: Edico Sear Co	Mauthino	BILL TO	ANALYSIS REQUEST
Sampler Local Control		7	P.O. #:	
hone #: 2-2234   Fax #: 2-6849   Address   City:			Company:	
hone #: 2-2234   Fax #: 2-6849   Address   City:	City: Hobbis State: N	M Zip: 86242	Attn:	
Troject Manne: C-L Canthon Din 2012 Values State: Ziph Proper Name: C-L Canthon Din 2012 Values State: Ziph Date: Zip			Address:	
Topiet Location: Manual Notation and Manual No			city: O	
Phone #:    Phone #:   Fax #:	Project Name: CLC Landform NM &		State: Zip:	
TOP LAB USE DAY  Lab I.D.  Sample Condition  Cool Janate  Indigitable  Sample I.D.		M. S. + 3	Phone #:	
Lab I.D. Sample I.	Sampler Name: Edd to Sean		Fax #:	
Lab I.D.    Column	FOR LAB USE ONLY	I. I. I. I. I. I. I. I. I. I. I. I. I. I	PRESERV. SAMPLING	
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Date:   Date:				
Time:   29   No   Add'! Fax #:   REMARKS:	service. In no event shall Cardinal be liable for incidental or consequental damages, in	Juding without I mitation, business Interruption	ns, loss of use, or loss of profits incurred by client,	its subsidieries.
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