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

## MONITORING REPORT

YEAR(S):

\_\_2013-2014\_\_\_

## Jones, Brad A., EMNRD

From:

Jones, Brad A., EMNRD

Sent:

Thursday, July 02, 2015 2:09 PM

To:

'Rena Seay'

Subject:

RE: Landfarm Rule Modification

Eddy,

Each letter provided instructions if approval of a modification could not be demonstrated. Below is the paragraph from each letter with the instructions underlined.

## **C&C** Landfarm:

"OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition "The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for major cations/anions and heavy metals annually," to semi-annual in 2008. OCD has been unable to locate C&C's modification request for the change in sampling frequency or OCD's approval for such a modification request. Please provide OCD a copy of C&C's modification request and OCD approval in order to continue the semi-annual sampling frequency. If C&C is unable to demonstrate the approval, C&C shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD's letter dated June 30, 2011 and titled "Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms" for expectation of compliance."

## DD Landfarm:

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

If you have any questions regarding this matter, please contact me.

Brad

Brad A. Jones
Environmental Engineer
EMNRD Oil Conservation Division
1220 S. Saint Francis Drive

Santa Fe, New Mexico 87505

E-mail: brad.a.jones@state.nm.us

Office: (505) 476-3487 Fax: (505) 476-3462

From: Rena Seay [mailto:seay04@leaco.net]
Sent: Thursday, July 02, 2015 8:31 AM

To: Jones, Brad A., EMNRD

Subject: Landfarm Rule Modification

Hello Brad,

I have finished going thru the files of C & C Landfarm and DD Landfarm, and all correspondence pertaining to the same.

I have been unable to find a letter pertaining to the modification request to operate under rule 36. DD and C & C are committed to getting in compliance with OCD, and has been trying to comply with rule 36.

Please let me know what we can do to continue operations.

Your advice would be appreciated. Have a good 4th of July.

Thanks,

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

## Jones, Brad A., EMNRD

From:

Rena Seay <seay04@leaco.net>

Sent:

Thursday, July 02, 2015 8:31 AM

To:

Jones, Brad A., EMNRD

Subject:

Landfarm Rule Modification

Hello Brad,

I have finished going thru the files of C & C Landfarm and DD Landfarm, and all correspondence pertaining to the same.

I have been unable to find a letter pertaining to the modification request to operate under rule 36. DD and C & C are committed to getting in compliance with OCD, and has been trying to comply with rule 36.

Please let me know what we can do to continue operations.

Your advice would be appreciated. Have a good 4th of July.

Thanks,

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

## State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary

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



June 4, 2015

Mr. Jimmie T. Cooper C & C Landfarm Inc. P.O. Box 55 Monument, New Mexico 88265

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

**Monitoring Report Review** 

C & C Landfarm Inc. Permit NM1-012

Location: Unit B of Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of C & C Landfarm Inc.'s (C&C) request, received by OCD on June 2, 2015, for an extension to respond to OCD's request for additional information based upon OCD's May 14, 2015 written review of C&C's June 2014 Bi-Annual Treatment and Vadose Zone and Five Year Vadose Zone Monitoring Report; December 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; and the August 2014 Release Response report for Cell G. OCD hereby grants a 30-day extension to the original deadlines, as provided in OCD's May 14, 2015 review.

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

Sincerely,

Brad A. Jones

**Environmental Engineer** 

BAJ/baj

cc:

OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

## C & C Landfarm

Box 55

RECEIVED OCD

Monument, NM 88265

2015 JUN -2 P 3: 16

**NMOCD** Environmental

ATTN: Brad Jones

1220 South St. Francis Drive

Santa Fe, NM 87505

RE: C & C Landfarm

Mr. Jones:

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

Your favor to an extension would be appreciated.

Jennie & Capper

C & C Landfarm

Jimmie T. Cooper

1-575-397-2045

## State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

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



May 14, 2015

Mr. Jimmy Cooper C & C Landfarm Inc. P.O. Box 55 Monument, New Mexico 88265

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

C & C Landfarm Inc. Permit NM1-012

Location: Unit B of Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of C & C Landfarm Inc.'s (C&C) June 2014 Bi-Annual Treatment and Vadose Zone and Five Year Vadose Zone Monitoring Report; December 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; and the August 2014 Release Response report for Cell G. OCD appreciates C&C's efforts to implement changes to your monitoring protocols to comply the with requests in OCD's 2013 Bi-Annual Sampling and Five Year Monitoring Report Review, dated April 9, 2014. The review of the 2014 monitoring data has resulted in the discovery of some issues that must be addressed in order for C&C to remain compliant with Permit NM1-012 and Part 36.

OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition "The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for major cations/anions and heavy metals annually," to semi-annual in 2008. OCD has been unable to locate C&C's modification request for the change in sampling frequency or OCD's approval for such a modification request. Please provide OCD a copy of C&C's modification request and OCD approval in order to continue the semi-annual sampling frequency. If C&C is unable to demonstrate the approval, C&C shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD's letter dated June 30, 2011 and titled "Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms" for expectation of compliance.

Pursuant to 19.15.36.15.E NMAC, the operator is required to compare the vadose results "to the higher of the PQL or the background soil concentrations to determine whether a release has

Mr. Cooper C&C Landfarms Inc. Permit NM-1-012 May 14, 2015 Page 2 of 3

occurred." OCD's review of the administrative files for the facility resulted in the discovery of the initial facility background data set from 1993. The May 7, 1993 background data set provided results for the following 24 analytes: pH; nitrates; hardness; calcium; magnesium; ortho-phosphate; sulfate; chlorides; arsenic, barium, cadmium, chromium; lead; mercury; selenium; silver; total recoverable petroleum hydrocarbons; benzene, toluene; ethyl benzene; total xylene, and MTBE. OCD has been unable to locate any additional background data that seemed to be used for the comparison for the 27 analtyes from the five year vadose zone monitoring event and the 68 analtyes from release response sampling event. Please provide OCD a copy of the laboratory data set used for the background/PQL data set, in order to establish an updated and revised facility background with OCD.

The June 2014 five year vadose zone monitoring results and laboratory chain of custody indicates that the vadose zone sampling event was an attempt to combine the annual vadose zone sampling required by permit condition and compliance with the five year vadose zone monitoring of 19.15.36.15.E.(3) NMAC. In doing so, additional analysis for total petroleum hydrocarbons (TPH), BTEX, and major cations/anions were performed on 3 of the 4 samples. Pursuant to the permit, "A minimum of one random soil sample will be taken from each individual cell, with no cell being larger than five (5) acres, six (6) months after the first contaminated soils are received in the cell and then quarterly thereafter. The sample will be taken at two (2) to three (3) feet below the native ground surface." In accordance with 19.15.36.15.E.(3) NMAC, the operator "The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone..." OCD also compared the 1993 background data set to the June 2014 five year vadose zone monitoring results and determined common exceedances for calcium, magnesium, arsenic, barium, cadmium, chromium, and lead. None of these exceedances were recognized in the assessment or recommended for the release response sampling of 19.15.36.15.E.(5) NMAC. If a different facility background data set was utilized for the assessment, please provide OCD a copy of the laboratory data set in order to establish an updated and revised facility background with OCD. If not, please demonstrate compliance to 19.15.36.15.E.(5) NMAC. Also, in the next sampling report, please identify which of the 13 landfarm cells (A through L) have been sampled for the five year vadose zone monitoring demonstration of 19.15.36.15.E.(3) NMAC and provide the associated sampling and laboratory results analyses date with the appropriate landfarm cell.

OCD compared the 1993 background data set to the August 2014 release response results for Cell G and determined common exceedances for arsenic, barium, cadmium, chromium, lead, and selenium. None of these exceedances were recognized in the assessment nor was a response action plan of 19.15.36.15.E.(5) NMAC proposed. The assessment provided in the report's cover letter stated "The analytical was compared to the background and PQL and was within guidelines." If a different facility background data set was utilized for the assessment, please provide OCD a copy of the laboratory data set in order to establish an updated and revised facility background with OCD. If not, please demonstrate compliance to 19.15.36.15.E.(5) NMAC.

Please note that the submittal of treatment zone monitoring results alone does not constitute a request for a successive/additional lift. The permit condition specifies "Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated soils." OCD requires such request to be made under a separate cover from other reporting and

Mr. Cooper C&C Landfarms Inc. Permit NM-1-012 May 14, 2015 Page 3 of 3

include the supporting analytical results and an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained.

Please provide OCD a copy of C&C's modification request and OCD approval in order to continue the semi-annual sampling frequency within 45 days of the date of this letter. Please provide OCD a copy of the laboratory data set used for the background/PQL data set, in order to establish an updated and revised facility background with OCD within 45 days of the date of this letter. If the 1993 background data set is the only background data for the comparison to determine whether a release has occurred in the vadose zone, please demonstrate compliance to 19.15.36.15.E.(5) NMAC by initiated the additional sampling for the landfarm cells that demonstrate exceedances in the June 2014 Five Year Vadose Zone Monitoring Report and submit a response action plan to address the exceedances August 2014 Release Response report for Cell G within 90 days of the date of this letter. Please identified which of the 13 landfarm cells (A through L) have been sampled for the five year vadose zone monitoring demonstration of 19.15.36.15.E.(3) NMAC and provide the associated sampling and laboratory results analyses date with the appropriate landfarm cell, with the next monitoring report.

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

Sincerely,

Brad A. Jones

**Environmental Engineer** 

BAJ/baj

cc: OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242



NMOCD Environmental 1220 S. Saint Francis Drive Santa Fe, NM 87504

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

**Bi-Annual Test** 

Dear Sir:

Find enclosed the analytical for the sampling event at C & C Landfarm.

The analytical was compared to the "PQL and Background", and all were in compliance.

On the next sampling event, we will test for Cations, Anions and WQCC metals.

Should you have any questions, please call.

Eddie W. Sian

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242 575-392-2236

seay04@leaco.net

cc: C & C Landfarm (J. Cooper)



January 05, 2015

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 12/29/14 16:00.

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

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (T

Method EPA 524.4

Total Trihalomethanes (TTHM) Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Soil

Reported.

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL A - T (H403937-01)

Chioride, SM4500Ci-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier		
Chloride	80.0	16.0	12/30/2014	ND	400	100	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	12/30/2014	ND	197	98.5	200	1.82		
DRO >C10-C28	25.0	10.0	12/30/2014	ND	231	115	200	0.909		
EXT DRO >C28-C35	<10.0	10.0	12/30/2014	ND						
Surrogate: 1-Chlorooctane	85.1 9	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	82.9 9	% 52.1-17	6							

## Sample ID: CELL B - T (H403937-02)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP	AP				,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier		
Chloride	112	16.0	12/30/2014	ND	400	100	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	12/30/2014	ND	197	98.5	200	1.82		
DRO >C10-C28	18.1	10.0	12/30/2014	ND	231	115	200	0.909		
EXT DRO >C28-C35	<10.0	10.0	12/30/2014	ND						
Surrogate: 1-Chlorooctane	86.0	% 47.2-15	7							
Surrogate: 1-Chlorooctadecane	86.2	% 52.1-17	6							

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and clean's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount paid by clent for analyses. All cleims, including those for negligence and 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 corresponding demages, including, without limitation, sushess interruptions, loss of use, or loss of profits incurred by clerit, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nensurder by Cardinal, regardless of whether such claim is besed upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuns



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

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

Project Number:

NONE GIVEN

Project Location: MONUMENT, NM SECT 3

## Sample ID: CELL C - T (H403937-03)

Chloride, SM4500Cl-B	mg/l	K <b>g</b>	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/30/2014	ND	400	100	400	0.00	
TPH 8015M	mg/l	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	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	238	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	63.0	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	85.4%	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.3%	6 52.1-17	6						

## Sample ID: CELL D - T (H403937-04)

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	12/30/2014	ND	400	100	400	0.00	
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	12/30/2014	ND	<b>19</b> 7	98.5	200	1.82	
DRO >C10-C28	467	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	214	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	88.1	% 47.2-15	7		. , , , , , , ,				
Surrogate: 1-Chlorooctadecane	91.8	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogras. Condinates liability and client's exclusive remedy for any claim arising, whether peed in contract or tort, shell be limited to the amount peed by client for analyses. All claims, including those for negligence and any other cause whatsower shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no eyent shall Cardinal be liable for incidental or consequential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clerk, its subsidiaries, affiliates or successors arising out of or related to the performance of the services menunder by Cardinal, regardless of whether such claim is bessed 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.

Calay Theena



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

Sampling Type:

01/05/2015

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number: C & C LANDFARM - TREATMENT ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL E - T (H403937-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2014	ND	400	100	400	0.00	
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	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO > C28-C35	<10.0	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	88.3 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.79	6 52.1-17	6						

## Sample ID: CELL F - T (H403937-06)

Chloride, SM4500Cl-B	mg/l	49	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/30/2014	ND	400	100	400	0.00	
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	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	108	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	43.9	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	80.8 %	6 47.2-15	7			40(4-11-4-7-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1		7 L. V.	
Surrogate: 1-Chlorooctadecane	89.2 %	6 <b>52.1-1</b> 7	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and clernits exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clernit for analyses. All claims, including those for negligence and any other cause whitebower shall be deemed watved 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 corresponding demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clernit, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nemunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditiens



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

Fax To: (505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

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 SECT 3

Sample ID: CELL G - T (H403937-07)

Chioride,	SM4500CFB	

Analy	rzad	Bv:	A

	1119	/ <del></del>	Anelyzed by Ar					RPD	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	Qualifier		
Chloride	112	16.0	12/30/2014	ND	400	100	400	0.00	
TPH 8015M	mg	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	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/30/2014	ND					

Surrogate: 1-Chlorooctane 89.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 86.8 % 52.1-176

## Sample ID: CELL H - T (H403937-08)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/30/2014	ND	400	100	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	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	90.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.09	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and client's exclusive remedy for any cleim arising, whether passed in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walked. In the sample in the passed in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, pushes intermuptions, 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 menunder by Cardinal, regardless of whether such claims is bested upon any of the above stated researce or otherwise. Results related whose the report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celley D. Kanna



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

(505) 392-6949 Fax To:

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

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 SECT 3

## Sample ID: CELL I - T (H403937-09)

Chloride, SM4500Ci-B  Analyte	mg/kg		Analyzed By: AP						
	Resuit	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	450	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	178	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	87.9	% 47.2-15	7						

95.3% 52.1-176 Surrogate: 1-Chlorooctadecane

## Sample ID: CELL J - T (H403937-10)

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	12/30/2014	ND	400	100	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	<50.0	50.0	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	1100	50.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	459	50.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	91.79	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 %	6 52.1-17	6						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinel's liability and client's exclusive remedy for any claim erising, 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 whospower shall be deemed wallwed 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 consequential damages, including, without limitation, pushess interruptions, loss of use of profits incurred by client, its absolutioners, affiliates or successors arising out of or related to the performance of the services nersunder by Cardinel, regardless of whether such claims is beast upon any of the above stated reasons or otherwise. Results related above. The report shall not be reproduced except in full with written approved of Cardinel Laboratories.

Celey & trans



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name: Project Number: C & C LANDFARM - TREATMENT ZONE NONE GIVEN

105 %

52.1-176

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL K - T (H403937-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	410	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	145	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	91.6	% 47.2-15	7						

## Sample ID: CELL L - T (H403937-12)

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	96.0	16.0	12/30/2014	ND	400	100	400	0.00	
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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	44.6	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	90.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.4	% 52.1-17	6						

\*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demagos. Cardina's liability and clients exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount pold 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 demages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, afflictes or successors arising out of or related to the performance of the services rescurder 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.

Celeg to trains



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

52.1-176

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

99.2 %

Sample Received By:

Jodi Henson

Project Location:

Surrogate: 1-Chlorooctadecane

MONUMENT, NM SECT 3

Sample ID: CELL M - T (H403937-13)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	305	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	126	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	87.0	% 47.2-15	7						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Utability and Damages. Cardinal's liability and client's exclusive remady for any claim arising, whether posed 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 wholsower shall be desired walked unless made in writing and received by Cardinal within thatty (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 orfits incurred by client, its subclaims, affiliates or aucessors arising out of or related to the performance of the services hardenessors or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Kenne



## **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. Cardinal's liability and clern's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause wholsoever shall be deemed we'ved 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 corresponding without limitation, pushess interruptions, loss of use, or loss of profits incurred by clernt, its absolutaries, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whather 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.

Clay & Kena



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANNE TELL	Sen. to		d By: Raceived By:	Relinquishe
Add'i Phone #: Add'i Fax #:		Phone Result Fax Result REMARKS:	nquished By:  Time: 101 29 Received By:	Relinqui
	pplicable	wide for any claim araing whether based in contract or ton shall be limited to the amount paid by the client for the lands for deterned relevant chase made in windig and received to Cardinal lands. 30 days after completion of the applicable including without finishing business intermitations on our or to any of profits increased by client its accordances rider by Cardinal, logardiess of whether such claim is based upon any of the above stated reasons or otherwise.	SER NOTE: Liably and Danges. Cartait laids, and cherts entlaive remails for an dam stang whether based in contract or for that be initiated to the amount paid by the chert. for the set All claims including those to registerize and any other cause entlations have been asked made in whiting and received to Cardinal laters 30 days after completion of the set. In no event shall contract be included to concequental advanges, including white first participation, business referency over on the other than bookshare.  In no event shall contract to labely to include any owners and danges, including white first participations, or do not one or than 10 for the performance of services included by Cardinal Inspections are only one of the above stated reasons or delegate.	PLEASE NOTI analyses All ci service in no a affiliates or suc-
	ر	J 18/2810.35	GOU I - T VII V	
		12/20/82/01/5	CAD H. T	
	د <b>ر</b> د <b>ر</b>	2020	7 7 7 7 2 7	
		22.88:55	SCORE TO VICE	
		2000,25	4 Cab D-1	
	\ <	20.05	300 0-1	
		1,728 7.75	Jell H- I	
	-	OTH ICE / OTH	# CO GRO WAS SOIL OIL SLUI	RACO
	ST FP Ch	ER: /BASE: COOL	Sample I.D.  AB OR INTAINE UNDW.	Lab I.D.
	E'H		ERS ATER	
	X	PRESERV. SAMPLING	MATRIX	FOR LAB US
	S 16	Phone 4:	Sampler Name: Z. // Sample	Project L Sampler
	s	State: Motto.mat	C+C Landform NIN 01 - 17	Project Name:
	M	City: DOX 55	C+C Last fram Project Owner: J. Carpa.	Project #
	Ex	Address C	201 - 2231 Fax # 302 - 69 40	Phone #:
	ten	Company: 54C	50x 55 %	Address
	-	P.O. #:		Project 1
ANALYSIS REQUEST	)	BILL TO	Company Name: C+C Company	Compan
			(575) 393-2326 FAX (575) 383-2476	
			404 E+ M-L U NIM 00310	

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

Stay of @ looks . mati

27



101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City 1) Onu man LEASTH Project #: C+C C Nome #: 391 - 223 udress: 75% 55 roject Location: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. FOR LAB USE ONLY ampier Name: + Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3820 Ō (675) 393-2326 FAX (675) 393-2476 Sample I.D. Server Harris Project Owner: 1. Coops. Fax # 393. 6949 State: Na Zip: 88215 D3 T. 20 1 28.5 (G)RAB OR (C) MP # CONTAINERS GROUNDWATER Sample Condition Cool Intact Pres Dres PX WASTEWATER MIRIX SOIL OIL SLUDGE P.O. #: OTHER Phone #: State: MODEL ALL Address: Box 54 Attn: J. CASAS Fax # Company: ACID/BASE PRESERV ICE / COOL OTHER OL 77/8 12/28 17:40 SAMPLING 2/29 11:00 2/28 11:20 DATE Phone Result: Fax Result: REMARKS: 12'(0 III. Seem of @ looks. not BT sem. Annual text ☐ Yes ☐ No Add'l Phone #: 8015 ck K ANALYSIS REQUEST



January 05, 2015

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 12/29/14 16:00.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey 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:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL A- V (H403938-01)

8TEX 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	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	<0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5. <del>49</del>	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	<0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 66.2-14	2						
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	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	85.6	% 47.2-15	7		.,,,				
Surrogate: 1-Chlorooctadecane	88.9	% 52.1-17	76						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagles. Cerdina's liability and client's exclusive remedy for any cleim arising, whether seed in contract or tort, shall be limited to the emount paid by clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding demages, including, without limitation, bushess interruptions, loss of use, or loss of use, or loss of profits incurred by clent, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nersunder 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.

Celley Thema



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

Fax To: (505) 392-6949

Received:

12/29/2014

01/05/2015

Reported: Project Name:

C & C LANDFARM - VADOSE ZONE

Project Number:

NONE GIVEN

Project Location:

MONUMENT, NM SECT 3

Sampling Date:

impling Date:

12/28/2014

Sampling Type: Soil

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

## Sample ID: CELL B- V (H403938-02)

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	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	<0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5. <del>49</del>	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	<0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 66.2-14.	2						
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	12/30/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	<sup>/</sup> 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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	94.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.6	% 52.1-17	_						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardina'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 clear for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed welved. In less made in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damagas, including, without limitation, bushess interruptions, loss of use, or loss of softs incurred by clear, its abstituteries, affiliates or successors wishing out of neithed to the performance of the services nersunder by Cardinal, regardless of whether such clean is based upon any of the above stated reasons or otherwise. Results related only to the complex identified above. This report shall not be reproduced except in full with writina approval of Cardinal Laboratories.

Celeg Thema



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

Fax To: (505) 392-6949

Received: Reported: 12/29/2014

01/05/2015

C & C LANDFARM - VADOSE ZONE

Project Name: Project Number:

NONE GIVEN

Project Location: MONUMENT, NM SECT 3 Sampling Date:

12/28/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

## Sample ID: CELL C- V (H403938-03)

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	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	<0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5. <del>49</del>	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	<0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 66.2-14	2						
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	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	90.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.6	% <i>52.1-17</i>	6						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and clerk's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount peld by client for analyses. All claims, including those for negligence and 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, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, afflictes or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whather 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.

Celley Thema-



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

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

Project Number: Project Location: NONE GIVEN

MONUMENT, NM SECT 3

Sample ID: CELL D - V (H403938-04)

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	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	<0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5.49	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	<0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 66.2-14	12						
Chloride, SM4500Cl-B	mag	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/30/2014	ND	400	100	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	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	89.6	% 47.2-15	57						
Surrogate: 1-Chlorooctadecane	90.0	% 52.1-17	76						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demograe. Condina's liability and cleant's exclusive remedy for any cleim arising, whether passed in contract or tort, shall be limited to the amount policity cleim for energy shall be cleims, including those for negligence and any other cause whistower shall be deemed welved. Inless 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, historial, without limitation, pushess interruptions, loss of uses of uses

Celey & Kenne



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

Fax To: (505) 392-6949

Received:

DTTV 0004 N

12/29/2014

Sampling Date:

12/28/2014

Reported:

Sampling Type:

Soil

01/05/2015

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL E- V (H403938-05)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 61-154							
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	12/30/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/31/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	231	115	200	0.909	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	90.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.0	% 52.1-17	o o						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardina's liability and clen'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 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 corresquential demagas, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, afflictes or successors arising out of or related to the performance of the services remainder 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.

Celly Thema-



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/28/2014

Reported:

01/05/2015

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 SECT 3

## Sample ID: CELL F - V (H403938-06)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.99	61-154	!						
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	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	88.3 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.5 9	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and clerk'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 waked 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 corresquential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by client, its substitutes, afflictus or successors arising out of or related to the performance of the services reneurder 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 T. Kenne



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

01/05/2015

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

NONE GIVEN

MONUMENT, NM SECT 3

Sample ID: CELL G - V (H403938-07)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 61-154	1						
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	12/30/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	₿S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	83.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	81.1	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina'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 clern't for analyses. All claims, including those for negligence and any other cause whistower shall be deemed well-well united in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or corresponded damages, hickding, without limitation, business inferruptions, loss of uses of softs incurred by client, its subsidiaries, affiliates or accessors arising out of or related to the performance of the services renunder by Cardinal, regardless of whether such claims is based upon any of the above stated resons or otherwise. Results relate only to the semples shall list above. The report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey To trains



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

01/05/2015

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 SECT 3

## Sample ID: CELL H - V (H403938-08)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 61-154	ſ						
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	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	88.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.6	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount peld by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be doesned walved. In the samples made in writing and received by Cardinal within thirty (30) does after completion of the applicable service. In no event shall Cardinal be liable for incidental or correspondential demagas, including, without limitation, business interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the semples 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

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

01/05/2015

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 SECT 3

## Sample ID: CELL I - V (H403938-09)

BTEX 8021B	mg/kg Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.6	% 61-154	•						
Chioride, 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	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	88.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.1	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cordinal's liability and clerk's exclusive remedy for any cleim arising, whether seed in contract or tort, shall be limited to the amount paid by clerk for analyses. All cleims, including those for negligence and any other cause wholesower shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding demogas, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clerk, its substitients, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether such claims is bessed 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. trains



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

Fax To: (505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

01/05/2015

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 SECT 3

Sample ID: CELL J - V (H403938-10)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 61-154							
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	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	87.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.0	% 52.1-17	5						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and cleant's exclusive remedy for any claim arising, whether seed in contract or tort, shall be limited to the amount peld by clent for analyses. All claims, including those for negliginice and any other cause whistoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential demages, including which in the contract of the performance of the services nemental or or related to the performance of the services nemental or or contract or contrac

Celey D. Keine



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

Fax To: (505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

01/05/2015

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

Sample ID: CELL K - V (H403938-11)

BTEX 8021B	mg/	kg	Anelyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 61-154	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO >C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	89.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.8	% 52.1-17	6						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and clean's exclusive remedy for any cleam arising, whether pased in contract or tort, shall be limited to the amount paid by clent for enalyses. All claims, including those for negligence and any other cause whatsoever shall be deemed welved. Inless 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 corresponded demages, including which in the contract initiation, such services participates, loss of use, or loss of profits incurred by clent, its ababilities or accessors arising out of or related to the performance of the services necessarily of cardinal profits above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced accept in full with written approval of Cardinal Laboratories.

Clay D. Kenn



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

Fax To: (505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

Sampling Type:

Soil

01/05/2015

Project Name: Project Number: C & C LANDFARM - VADOSE ZONE NONE GIVEN

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

Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL L - V (H403938-12)

BTEX 8021B  Analyte	mg/	kg	Analyze	d By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 61-154	1						
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	12/30/2014	ND	400	100	400	3.92	
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	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	85.6	% 47.2-15	7	,					
Surrogate: 1-Chlorooctadecane	84.4	% 52.1-17	6						

## \*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demages. Cerdinal's liability and clerk'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 whistoever shall be deemed welved unless made in writing and necessed by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, hickaing, without limitation, bushess interruptions, loss of use, or loss of profits incurred by client, its aubsidiaries, affiliates or aucrossers arising out of or related to the performance of the services necessary containing any of the above stated reasons or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with written approved of Cardinal Laboraturies.

Celly T. Kenne



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

Fax To:

(505) 392-6949

Received:

12/29/2014

Sampling Date:

12/29/2014

Reported:

Sampling Type:

01/05/2015

NONE GIVEN

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

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

Project Number: Project Location:

MONUMENT, NM SECT 3

## Sample ID: CELL M - V (H403938-13)

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	12/31/2014	ND	1.83	91.6	2.00	2.58	
Toluene*	<0.050	0.050	12/31/2014	ND	1.82	91.0	2.00	3.29	
Ethylbenzene*	<0.050	0.050	12/31/2014	ND	1.73	86.4	2.00	4.64	
Total Xylenes*	<0.150	0.150	12/31/2014	ND	5.23	87.2	6.00	4.78	
Total BTEX	<0.300	0.300	12/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5 %	6 61-154	ı						
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	12/31/2014	ND	400	100	400	3. <b>9</b> 2	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/31/2014	ND	195	97.4	200	2.01	
DRO >C10-C28	<10.0	10.0	12/31/2014	ND	229	115	200	3.27	
EXT DRO > C28-C35	<10.0	10.0	12/31/2014	ND					
Surrogate: 1-Chlorooctane	88.2 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.4 9	6 52.1-17	6						

## \*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demagas. Cardinal's liability and cleric'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 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, without limitation, bushess interruptions, loss of use, or loss of crofits incurred by client, its subsidiaries, afflictes or successors arising out of or related to the performance of the services nersunder 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.

Celeg To trains



## **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. Cardinal's liability and clerk's exclusive remedy for any claim arising, whather pased in contract or tort, shall be limited to the amount peld by clerk for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponditely demages, including, without limitation, pushess infarruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or auccessors arising out of or related to the performance of the services nersunder 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. Kana



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		1.	1	Cool intact	\$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	æ	- Bus - Other:	Sampler - UPS - Bus - Other:
# 0 BKs . BH	to take		CHECKEDAY.	and Condition		Time:	(Circle One)	Polivand By: (Circle One)
Annual Test	Sem. +				edelwed By	Date:		Relinquished by
NO MODITAX 8:	•	REMARKS:	SAMI			11me/1.00		1000
No Addi Phone #:	Y 8	Phone Result:	d upon any of the above sta	ALL MCD COM II DATE	eceived By	Date: 21.70	out of or related to the performen	Relinquished By
	etion of the applicable subsidiaries.	ys after completion of the ad by client, its subublent	ed by Cardinal within 30 day use, or best of profile incurre	vade in writing and races eas interruptions, loss of	ed waived unless m out hmitston, busine	er cause whateverer shall be deen sequental damages, including with	ding those for negligence and any oth Cardinal be table for incidental or con	analyses. All claims including service. In no event shall Ca
		and peed by the cheent by th	shall be limited to the arrow	based in contract or lon.	An arrang wholiver	chant's exclusive remedy for any cl	Damages, Cardinal's liability and	PLEASE NOTE: Limbilly and
	<u>ر</u> ر	29 51:50	2 10	2	=		H	۲
	ر د د	13.6	ن در	C	•	<	Jel 14 -	8
	ر د د	9 7:25	ر در ادر	2	-	< ≺	10 G -	7
	ひくこ	84:50	ເ ນ	e	-	ر ر	F -	6
	1 C	S 4.30	J 12/0	2	<b>–</b>		(= 3 Cm)	'n
	ر د	83:45	12,3	•	_	1 2	000	ų
	くく	25:55	N.		-	7	100 C-	3
	ر د د	2:15	2 60/2	•	-	ر د	.// 3-	2
	1 5 J	28 1:40	<u>د</u> ک		<b>T</b>	\ \	Coll A - 1	1
	1	T TIME	OTHE	SOIL OIL SLUD OTHE		(G)RA		H403938
	12 12 13 13 13 13 13 13 13 13 13 13 13 13 13		coo	R:	NTAI		Sample I.D.	Lab I.U.
	7 7 7 1	North Action			VATE		•	;
	Ļ					MP		
	.d	SAMPLING	SERV	MATRIX PRI	7	Hazar La	Edica. 3	FOR LAB USE ONLY
	b) !		Phone #:	K S Pho	20	200	The Base of	Project Location:
	s ]	E.	* MONTAN		01 - 1	NIV.	+ c Loute	Project Name: (+ C
	Μ	i	Ş	City:	. 6	Project Owner:	· Californ	Project #: C+C
	4	7	Address: P	Add	6440	Fax #: 393.	- 2236	Phone #: 392-
	ek.	1	Attn: I CASA	5	282	State: Na Zip:	30.54	CHY TO ON WAS A
	ten		Company: くナ(	Con			55	Address: 3
	,		*	P.O. #:			y Cook	Project Manager:
ANALYSIS REQUEST		2	BILL TO	10 mm		Horse	C+C (ou	Company Name:
						X (575) 393-2476	575) 393-2326 FAX (575) 393-2476	
						101 East Marland, Hobbs, NM 88240	01 East Marland, I	_

Page 16 of 17

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 3914326

2 Ex

20th SEP 26 P 3: 00

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

RE: C & C Landfarm

Cell G

Mr. Jones:

Find attached analytical for the additional sampling for cell G at C & C Landfarm as required. The analytical was compared to the background and PQL and was within guidelines.

The only explanation for the elevated TPH in the original vadose sample was human error. We will be more cautious in the future.

Should you have any questions or need anything further, please let me know.

Thanks,

Eddie W. Seay Eddie Seay Consulting

Eddi W Sean

601 W. Illinois Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: C & C Landfarm



September 04, 2014

**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 08/06/14 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

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

Method SM 9223-B Total Coliform and E. coli (Colliert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

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

Reported:

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

04-Sep-14 10:06

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL G-1	H402411-01	Soil	05-Aug-14 13:30	06-Aug-14 10:15
CELL G-2	H402411-02	Soil	05-Aug-14 14:15	06-Aug-14 10:15
CELL G-3	H402411-03	Soil	05-Aug-14 15:10	06-Aug-14 10:15
CELL G-4	H402411-04	Soil	05-Aug-14 16:00	06-Aug-14 10:15

Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance arising other cause whatsoever shall be deemed wated unless made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be lable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidence, affiliates or successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successor 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** 601 W. Illinois

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

Reported: 04-Sep-14 10:06

Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay Fax To: (505) 392-6949

> CELL G-1 H402411-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4081401	ΑP	15-Aug-14	4500-Cl-B	
pH*	8.39		0.100	pH Units	1	4081204	ΑP	12-Aug-14	9045	
Phenois	ND		2.5 r	ng/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		100	mg/kg	10	4081805	AP	18-Aug-14	375.4	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
Radionuclides										
Radium-226	$\textbf{0.7} \pm \textbf{0.1}$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	,
Radium-228	$1.4 \pm 0.8$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	1
Total Radium	$2.1 \pm 0.8$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	-2
PCB 1242	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene			96.3 %	35-1	40	4083106	CK	12-Aug-14	8082	
Volatile Organic Compounds by 1	EPA Method 8260E	}								
Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	1)
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	9
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jubility and Demogres. Condinent's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount point you client for analyses. All claims, including those for negligence arising over cause whetboower shall be deemed welved unless made in writing and neceword by Cardinal within thirty (20) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, it is subsidiaries, affiliates or successors ensing out of or related to the performance of the services necessary arising out of or related to the performance of the services necessary arising out of or related to the annual performance of the services necessary arising out of or related to the annual performance of the services necessary arising out of or related to the annual performance of the services necessary arising out of the services necessary arising out of contract luminostatives.





Eddie Seay Consulting

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

Reported:

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

04-Sep-14 10:06

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL G - 1 H402411-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories		<del>-</del>			
Volatile Organic Compounds by E	PA Method 8260	B								
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	<b>826</b> 0	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	<b>826</b> 0	
1,1,2-Trichloroeth an e*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	14
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			93.3 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			110 %	7 <b>0</b> -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			92.8 %	70-	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphth alene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	- (
Fluorene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damagos. Cardina's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance or any other cause whatsoever shall be deemed waterd unless made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be labile for incidental or consequential demagae including, without limitation, business interruptions, loss of use, or loss of us

Celey & Keine

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

04-Sep-14 10:06

# CELL G-1 H402411-01 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
Semivolatile Organic Compou	nds by GCMS								
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
yrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	11
Benzo[k]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	`
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
ndeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		80.0 %	16.1-	91.8	4080102	CK	19-Aug-14	8270C	
urrogate: 2-Fluorobiphenyl		112 %	27.2-	92.9	4080102	CK	19-Aug-14	8270C	S-0
Surrogate: Terphenyl-dl4		163 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-0-
		Green Anal	ytical Lab	oratories					
General Chemistry									
Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
∕₀ Dry Solids	99.5		%	1	B408097	LLG	13-Aug-14	EPA160.3	H
Soluble (DI Water Extraction)									
luoride	1.51	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	2.49	0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	1
Nitrite as N	ND	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP									
Barium	17.7	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	_
Iron	3000	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	6

# Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Jability and Damagas. Cardinal's lability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence or any other cause whatosever shall be deemed waterd unless made in writing and neceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be labile for incidental or consequential demaga including, without limitation, business interruptions, bas of use, or loss of profiles incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services narrounder by Cardinal, regardless of whether suc 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.

Celley & Keena



Eddie Seay Consulting 601 W. Illinois

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

Reported: 04-Sep-14 10:06

Hobbs NM, 88242

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

Fax To: (505) 392-6949

# CELL G - 1 H402411-01 (Soil)

Analyte	Result	MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
		Green Anal	lytical Lab	oratories						
Total Metals by ICP										
Zinc	6.30	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B		1
Total Metals by ICPMS										í
Arsenic	0.608	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		•
Cadmium	0.141	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Chromium	5.11	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Copper	0.659	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Lead	2.23	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Manganese	22.8	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Selenium	1.18	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		
Silver	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		. ,
Uranium	0.101	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A		\ 8
Total Mercury by CVAA										
Mercury	ND	0.0995	mg/kg dry	495	B408164	JGS	20-Aug-14	EPA7471		

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Lability and Demogras. Cardinal's lability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence or any other causes whetspower shall be deemed watered unless made in withing and received by Cardinal within thirty (30) days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of use, or loss of or ordital incurred by client, its subsidenties, affiliates or successors arising out of or related to the performance of the services necessor or otherwise. Results related only to the semples labilitied down. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey & Keena



**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 Fax To: (505) 392-6949

04-Sep-14 10:06

CELL G-2 H402411-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4081401	ΑP	15-Aug-14	4500-C1-B	
pH*	7.03		0.100	pH Units	1	4081205	ΑP	14-Aug-14	9045	
Phenols	ND		2.0 r	ng/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081805	AP	18-Aug-14	375.4	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
Radionuclides										
Radium-226	$0.5 \pm 0.1$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.1	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	$0.5 \pm 0.1$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene			62.9 %	35-1-	40	4083106	CK	12-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 8260	В								
Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND .		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

# Cardinal Laboratories

\*=Accredited Analyte

\*LEASE NOTIE: Jubility and Demogres. Cardinal's lability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance an any other cause whatsoewer shall be deemed watved unless made in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall be lable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidentes, affiliates or successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors or otherwise. Results related now to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Kruna



Eddie Seay Consulting 601 W. Illinois

Hobbs NM, 88242

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

Project Number: C&CLANDFA
Project Manager: Eddie Seay

Fax To: (505) 392-6949

Reported: 04-Sep-14 10:06

# CELL G - 2 H402411-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 826	0B								
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroeth ane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroeth ane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			88.6 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			111 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			96.9 %	70-	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg/kg	40	4080102	C <b>K</b>	20-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
1-Methyln aphth alene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	

#### Cardinal Laboratories

\*=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 cald by client for analyses. All claims, including those for negligance arising other cause whotocever shall be deemed welved unless made in writing and necessary cardinal within thirty (30) days offer competition of the applicable service. In no event shall cardinal be lable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidences, diffiletes or successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal, regardless of whether successors arising out of or nelated to the performance of the services nemander by Cardinal Liaboratories.





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
Fax To: (505) 392-6949

04-Sep-14 10:06

# CELL G - 2 H402411-02 (Soil)

Analyte	Result	Reporting MDL Limi	t Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	nal Labora	tories					
Semivolatile Organic Compounds b	y GCMS								
Fluoranthene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Pyrene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]anthracene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Chrysene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[b]flouranthene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[k]flouranthene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]pyrene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.04	) mg/kg	40	4080102	CK	20-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		86.0 %	6 16.1-	-91.8	4080102	CK	20-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		106%	6 27.2	-92.9	4080102	CK	20-Aug-14	8270C	S-04
Surrogate: Terphenyl-dl4		140 %	6 21.3	-96.1	4080102	CK	20-Aug-14	8270C	S-04
		Green An	alytical Lab	oratories					
General Chemistry									
Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	99.4		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2
Soluble (DI Water Extraction)									
Fluoride	1.01	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	2.05	0.400	) mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0.20	) mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP									
Barium	17.1	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	2600	5.00	) mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	6.94	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010B	

#### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Jubility and Demagos. Cardinal's lability and client's exclusive namedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whethouser shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be labile for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss, or loss, or loss, or loss, or loss of softs incorrect by Cardinal, regardless of whether aux claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



**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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G-2 H402411-02 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICPMS									
Arsenic	0.692	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Cadmium	0.163	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Chromium	5.03	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Copper	0.801	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Lead	3.14	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Manganese	31.6	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Selenium	2.28	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Uranium	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0966	mg/kg dry	480	B408164	JGS	20-Aug-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jebillty and Demages. Cardhelfs lebillty and client's exclusive remedy for any claim entains, whether besed in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence an any other cause whatsoever shall be deemed watved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable sender. In no event shall Cardinal be lable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services mereunder by Cardinal, regardless of whether suc cleim 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.

Celeny D. Kreena



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G-3 H402411-03 (Soil)

Analyte	Result	MDL L	ting imit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	dina	l Laborato	ries					
Inorganic Compounds										
Chloride	ND	1	6.0	mg/kg	4	4081401	AP	15-Aug-14	4500-C1-B	
pH*	7.53	0.1	100	pH Units	1	4081205	AP	14-Aug-14	9045	
Phenols	ND		2.0 n	ng/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND	4	0.0	mg/kg	4	4081805	AP	18-Aug-14	375.4	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
Radionuclides										
Radium-226	$0.6 \pm 0.1$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.1	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	$0.6 \pm 0.1$			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1221	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1232	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1242	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1248	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1254	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1260	ND	1	0.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene		80.0	5%	35-14	10	4083106	CK	12-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 8260	В								
Vinyl chloride*	ND	0.0:	500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND	0.0	500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND	0.0	500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND	0.0	500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND	0.0	500	mg/kg	50	4080701	MS	07-Aug-14	8260	

#### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardhafs 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 claims, including those for negligence arising whether course whetsoever shall be deemed waved unless made in writing and received by Cardhal within thirty (30) days after completion of the applicable service. In no event shall be deemed unless made in writing and received by Cardhal within thirty (30) days after completion of the applicable service. In no event shall be liable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardhal, regardless of whether suc 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 & Kuna



**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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G-3 H402411-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260	В								
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tolu <b>e</b> ne*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			89.6 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			112 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			94.3 %	70-	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Phenanthrene	ND		0.040	mg∕kg	40	4080102	CK	20-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Libbility and Damages. Cardinal's lability and client's exclusive 'erredy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance or any other cause whetsoewer shall be deemed welved unkess made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lable for incidental or consequential demage including, without limitation, bushness interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether successors or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keena



**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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G-3 H402411-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Semivolatile Organic Compounds b	y GCMS									
Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo(b)flouranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Dibenz{a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			83.1 %	16.1-	91.8	4080102	CK	20-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl			106 %	27.2-	92.9	4080102	CK	20-Aug-14	8270C	S-04
Surrogate: Terphenyl-dl4			148 %	21.3-	96.1	4080102	CK	20-Aug-14	8270C	S-04
		G	reen Analy	vtical Lab	oratories					
General Chemistry										
Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	96.7			%	1	B408097	LLG	13-Aug-14	EPA160.3	H
Soluble (DI Water Extraction)										
Fluoride	1.17		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	8.21		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP										
Barium	80.5		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	7730		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	27.1		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jability and Demages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance or any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be labile for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celley Streen



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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G - 3 H402411-03 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICPMS									
Arsenic	2.32	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Cadmium	0.464	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Chromium	9.54	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Copper	5.26	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Lead	6.50	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Manganese	124	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Selenium	2.58	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Uranium	0.275	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.101	mg/kg dry	490	B408164	JGS	20-Aug-14	EPA7471	

#### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Demogres. Cardinal's liability and client's exclusive remody for any cleim arising, whether based in contract or tart, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence or any other causes whetsoever shall be deemed welved unless made in writing and necessary by cleims, this competition of the applicable service. In no event shall be liable for incidental or consequential demogre including, without limitation, business interruptions, best of use, or loss of u

Celey B. 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
Fax To: (505) 392-6949

04-Sep-14 10:06

# CELL G - 4 H402411-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	4081401	AP	15-Aug-14	4500-Cl-B	
pH*	7.83	0.100	pH Units	1	4081205	AP	14-Aug-14	9045	
Phenois	ND	2.1	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	65.7	40.0	mg/kg	4	4081805	AP	18-Aug-14	375.4	
Organic Compounds			<u></u>						
TPH 418.1	ND	100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
Radionuclides									
Radium-226	ND	0.30	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND	1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND	1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
PCBs BY GC/ECD									SUB-SS
PCB 1016	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1221	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1232	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1242	ND	10.0	ug/kg	1	4083106	$\mathbf{C}\mathbf{K}$	12-Aug-14	8082	
PCB 1248	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1254	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
PCB 1260	ND	10.0	ug/kg	1	4083106	CK	12-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene		60.7 %	35-1	40	4083106	CK	12-Aug-14	8082	
Volatile Organic Compounds by El	PA Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardhel's liability and client's exclusive remady for any claim arising, whether based in contract or tort, shell be limited to the amount celd by client for analyses. All claims, including those for negligence or any other cause whethsower shell be deemed welved unless made in writing and neceived by Cardinel within thirty (20) days after completion of the applicable service. In no event shell Cardhel be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of use,

Celey & Keena



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 Fax To: (505) 392-6949 04-Sep-14 10:06

CELL G - 4 H402411-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by F	PA Method 8260	)B								<del></del>
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroeth ane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			88.5 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			112 %	70-	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			97.0 %	70-	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Acen aphthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jability and Demogras. Cardinal's kebility and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence are any other causes whatspower shall be deemed verwed unless made in writing and neceived by Cardinal within thirty (30) days after competition of the applicable service. In no event shall be liable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or l

Celly & Keine



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

04-Sep-14 10:06

Fax To: (505) 392-6949

CELL G - 4 H402411-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Semivolatile Organic Compounds	by GCMS									
Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[b]flouranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	20-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			81.2 %	16.1-	91.8	4080102	CK	20-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl			99.0 %	27.2-	92.9	4080102	CK	20-Aug-14	8270C	S-0
Surrogate: Terphenyl-dl4			130 %	21.3-	96.1	4080102	CK	20-Aug-14	8270C	S-0
		(	Green Analy	ytical Lab	oratories					
General Chemistry										·····
Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	99.3			%	1	B408097	LLG	13-Aug-14	EPA160.3	Н
Soluble (DI Water Extraction)										
Fluoride	1.14		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	2.48		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP										
Barium	16.8		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	2510		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	6.96		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance or any other cause whotsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be labile for incidental or consequential damage including, without limitation, bushess interruptions, loss of use, or loss of cardinal by client, its subsideries, affiliates or successors arising out of or nelated to the performance of the services harvander by Cardinal, regardless of whether suc claim is besed 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 & Keena



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

04-Sep-14 10:06

Fax To: (505) 392-6949

# CELL G - 4 H402411-04 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICPMS									
Arsenic	0.675	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Cadmium	0.112	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Chromium	5.48	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Copper	0.758	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Lead	2.07	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Manganese	29.1	0.500	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Selenium	2.60	1.00	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Uranium	ND	0.100	mg/kg dry	1000	B408170	JGS	21-Aug-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0966	mg/kg dry	480	B408164	JGS	20-Aug-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Damagnis. Cardinal's tability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All claims, including those for negligence arising other clause whatsower shall be deemed wathed unless made in withing and received by Ordinal within thirty (30) days after competition of the applicable service. In no event shall Continue be lable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by claims, its subsidents, affiliates or successors arising out of or related to the performance of the services necessors or otherwise. Results related above. This temperatured except in full with written approved of Cardinal Laboratories.

Celey & Keena



Eddie Seay Consulting 601 W. Illinois

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

Reported:

Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay Fax To: (505) 392-6949

04-Sep-14 10:06

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

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4081204 - NO PREP										
LCS (4081204-BS1)				Prepared &	Analyzed:	12-Aug-14				
рН	7.09		pH Units	7.00		101	90-110			
Duplicate (4081204-DUP1)	Sou	rce: H402388	-05	Prepared &	Analyzed:	12-Aug-14				
рН	8.12	0.100	pH Units		8.08			0.494	20	
Batch 4081205 - NO PREP										
LCS (4081205-BS1)				Prepared: 1	2-Aug-14	Analyzed: 1	4-Aug-14			
рН	7.13		pH Units	7.00		102	90-110			
Duplicate (4081205-DUP1)	Sou	rce: H402411	-02	Prepared: 1	2-Aug-14	Analyzed: 1	4-Aug-14			
рН	7.05	0.100	pH Units		7.03			0.284	20	
Batch 4081401 - 1:4 DI Water										
Blank (4081401-BLK1)				Prepared &	Analyzed:	14-Aug-14				
Chloride	ND	16.0	mg/kg							
LCS (4081401-BS1)				Prepared &	Analyzed:	14-Aug-14				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4081401-BSD1)				Prepared &	Analyzed:	14-Aug-14				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
Batch 4081805 - General Prep - Wet Chem										
Blank (4081805-BLK1)				Prepared &	Analyzed:	18-Aug-14				
Sulfate	ND	10.0	mg/kg	• • • • • • • • • • • • • • • • • • • •	<u></u>					

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Liability and Demogres. Candinafis liability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence or any other causes whetispower shall be deemed without any client for analyses. All claims, including those for negligence or any other causes whetispower shall be deemed without better than the provided of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of us

Celley & Keena



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 04-Sep-14 10:06

Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay Fax To: (505) 392-6949

#### Inorganic Compounds - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4081805 - General Prep - Wet Chem										
Matrix Spike (4081805-MS1)	Sour	ce: H402411	-01	Prepared &	Analyzed:	18-Aug-14				
Sulfate	138	100	mg/kg	20.0	28.9	546	70-130			
Batch 4083105 - General Prep										
Blank (4083105-BLK1)				Prepared: 1	5-Aug-14	Analyzed: 1	9-Aug-14			
Phenois	ND	0.5	mg/kg dry wt.							
LCS (4083105-BS1)				Prepared: 1	5-Aug-14	Analyzed: 1	9-Aug-14			
Phenols	0.4		mg/kg	0.400		90.2	70-130			
Matrix Spike (4083105-MS1)	Sour	ce: H402388	-01	Prepared: 1	5-Aug-14	Analyzed: 1	9-Aug-14			
Phenols	19.7		mg/kg	20.3	0.0	97.0	70-130			
Matrix Spike Dup (4083105-MSD1)	Sour	ce: H402388	-01	Prepared: 1	5-Aug-14	Analyzed: 1	9-Aug-14			
Phenols	19.1		mg/kg	20.3	0.0	94.1	70-130	3.09	20	

Cardinal Laboratories \*=Accredited Analyte

FLEASE NOTE: Jubility and Demogos. Cardinal's tability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoewer shall be deemed waived unless mede in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall be deemed waived unless mede in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall be for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidentes, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinel, regardless of whether successors or otherwise. Results related necessars or otherwise. Results related necessars or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinel Laboratories.

Celly & Kuna



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

04-Sep-14 10:06

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 4080611 - Solvent Extraction										
Blank (4080611-BLK1)				Prepared &	Analyzed:	18-Aug-14				
TPH 418.1	ND	100	mg/kg							
LCS (4080611-BS1)				Prepared &	Analyzed:	18-Aug-14	ļ			
TPH 418.1	5340	100	mg/kg	5000		107	80-120			
LCS Dup (4080611-BSD1)				Prepared &	Analyzed:	18-Aug-14				
TPH 418.1	5230	100	mg/kg	5000		105	80-120	2.06	20	
1111 710.1	3230	100	<b></b>	2000		105	00-120	2.00		

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Demogras. Cardinal's liability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence arising of the applicable service. In no event shall be deemed without produced in the produced by Cardinal within thirty (30) days after competition of the applicable service. In no event shall be for incidental or consequential damage including, without limitation, business interruptions, best of use, or loss of use, or lo

alex & Keene



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 Fax To: (505) 392-6949

04-Sep-14 10:06

#### PCBs BY GC/ECD - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4083106 - General Prep										<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Blank (4083106-BLK1)				Prepared: 0	7-Aug-14 A	Analyzed: 1	2-Aug-14			
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	12.9		ug/L	10.0		129	35-140			
LCS (4083106-BS1)				Prepared: 0	7-Aug-14 A	Analyzed: 1	2-Aug-14			
PCB 1016	59.2		ug/L	100		59.2	40-130			
PCB 1260	91.2		ug/L	100		91.2	40-130			
Surrogate: Tetrachloro-meta-xylene	5.24		ug/L	10.0		52.4	35-140			
Matrix Spike (4083106-MS1)	Sour	rce: H402411-	01	Prepared: 0	7-Aug-14 A	Analyzed: 1	2-Aug-14			
PCB 1016	65.2		ug/L	100	ND	65.2	40-130			
PCB 1260	129		ug/L	100	ND	129	40-130			
Surrogate: Tetrachloro-meta-xylene	4.36		ug/L	10.0		43.6	35-140			
Matrix Spike Dup (4083106-MSD1)	Sour	rce: H402411-	01	Prepared: 0	7-Aug-14 A	Analyzed: 1	2-Aug-14			
			/T	100	ND	57.1	40-130	13.2	30	
PCB 1016	57.1		ug∕L	100	ND	31.1	40-130	1.5.2	30	
	57.1 129		ug/L ug/L	100	ND	129	40-130	0.00	30	

Cardinal Laboratories \*=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, shell be limited to the amount celd by client for analyses. All claims, including those for negligence arising other competition of the applicable service. In no event shell cardinal be table for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, diffilates or auccessors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether suc claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg To Kreena

%REC



### Analytical Results For:

Eddie Seay Consulting 601 W. Illinois

Hobbs NM, 88242

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

Source

Reported: 04-Sep-14 10:06

RPD

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

Fax To: (505) 392-6949

Spike

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

#### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080701 - Volatiles										
Blank (4080701-BLK1)				Prepared &	Analyzed:	07-Aug-14				
Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.434		mg/kg	0.500		86.9	70-130			
Surrogate: Toluene-d8	0.556		mg/kg	0.500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.475		mg/kg	0.500		95.1	70-130			
LCS (4080701-BS1)				Prepared &	Analyzed:	07-Aug-14				
Vinyl chloride	1.24	0.0500	mg/kg				70-130			
1,1-Dichloroethene	1.70	0.0500	mg/kg	2.00		85.0	70-130			
Methylene chloride	1.28	0.0500	mg/kg	2.00		64.0	70-130			BS
1,1-Dichloroethane	1.47	0.0500	mg/kg	2.00		73.5	70-130			
Chloroform	1.42	0.0500	mg/kg	2.00		70.8	70-130			
Carbon tetrachloride	1.68	0.0500	mg/kg	2.00		84.2	70-130			
1,1,1-Trichloroethane	1.55	0.0500	mg/kg	2.00		77.3	70-130			

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damagus. Candina's kebility and client's exclusive "emedy for any claim arising, whether based in contract or tort, shell be limited to the amount baid by client for energies. All claims, including those for negligence arising of the assessment shell be deemed wetwed unless made in withing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shell Cardinal be lable for including, without limitation, business interruptions, loss of use, or los

Celley & Keina



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

Reported: 04-Sep-14 10:06

Project Number: C & C LANDFARM

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 4080701 - Volatiles				····						
LCS (4080701-BS1)				Prepared &	Analyzed:	07-Aug-14				
Benzene	1.56	0.0500	mg/kg	2.00		77.8	70-130			
1,2-Dichloroethane	1.22	0.0500	mg/kg	2.00		60.9	70-130			BS
Trichloroethene	1.55	0.0500	mg/kg	2.00		77.6	70-130			
Toluene	1.70	0.0500	mg/kg	2.00		84.9	70-130			
Tetrachloroethene	2.26	0.0500	mg/kg	2.00		113	<b>7</b> 0-1 <b>3</b> 0			
1,1,2-Trichloroethane	1.74	0.0500	mg/kg	2.00		86.8	70-130			
1,2-Dibromoethane	1.81	0.0500	mg/kg	2.00		90.7	70-130			
Ethylbenzene	1.66	0.0500	mg/kg	2.00		82.8	70-130			
m-p Xylenes	3.81	0.100	mg/kg				70-130			
o-Xylene	1.81	0.0500	mg/kg	2.00		90.4	70-130			
Total Xylenes	5.62	0.150	mg/kg	6.00		93.7	70-130			
1,1,2,2-Tetrachloroethane	1.76	0.0500	mg/kg	2.00		<b>87</b> .9	70-130			
Naphthalene	1.82	0.0500	mg/kg	2.00		91.0	70-130			
Surrogate: Dibromofluoromethane	0.454		mg/kg	0.500		90.8	70-130			
Surrogate: Toluene-d8	0.531		mg/kg	0.500		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	70-130			
LCS Dup (4080701-BSD1)				Prepared &	Analyzed:	07-Aug-14	1			
Vinyl chloride	1.32	0.0500	mg/kg				70-130	5.87	20	
1,1-Dichloroethene	1.87	0.0500	mg/kg	2.00		93.5	70-130	9.55	20	
Methylene chloride	1.41	0.0500	mg/kg	2.00		70.3	70-130	9.34	20	
1,1-Dichloroethane	1.65	0.0500	mg/kg	2.00		82.4	70-130	11.3	20	
Chloroform	1.58	0.0500	mg/kg	2.00		<b>7</b> 9.1	70-130	11.0	20	
Carbon tetrachloride	1.87	0.0500	mg/kg	2.00		93.3	70-130	10.2	20	
1,1,1-Trichloroethane	1.69	0.0500	mg/kg	2.00		84.4	70-130	8.76	20	
Benzene	1.72	0.0500	mg/kg	2.00		86.1	70-130	10.2	20	
1,2-Dichloroethane	1.36	0.0500	mg/kg	2.00		67.8	70-130	10.7	20	BS
Trichloroethene	1.74	0.0500	mg/kg	2.00		86.9	70-130	11.3	20	
Toluene	1.88	0.0500	mg/kg	2.00		94.2	70-130	10.4	20	
Tetrachloroethene	2.75	0.0500	mg/kg	2.00		137	70-130	19.4	20	BS
1,1,2-Trichloroethane	1.95	0.0500	mg/kg	2.00		97.4	70-130	11.5	20	
1,2-Dibromoethane	2.00	0.0500	mg/kg	2.00		99.8	70-130	9.57	20	

#### Cardinal Laboratories

\*=Accredited Analyte

\*\*REASE NOTE: Liability and Demages. Cardinal's tability and client's exclusive remedy for any claim arising, whether based in contract or tort, shell be limited to the amount cald by client for anelyses. All claims, including those for negligence arising over cause whetasover shell be deemed welved unless made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shell Cardinal be labble for incidental or consequential dismage including, without limitation, business interruptions, loss of use, or loss of unofits incurred by Clardinal, regardless of whether such claims is beset/upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shell not be reproduced except in full with written approved of Cardinal Laboratories.

Celey & Keena



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 04-Sep-14 10:06

Fax To: (505) 392-6949

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

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080701 - Volatiles										
LCS Dup (4080701-BSD1)				Prepared &	Analyzed:	07-Aug-14				
Ethylbenzene	1.84	0.0500	mg/kg	2.00		92.2	70-130	10.7	20	
m-p Xylenes	4.28	0.100	mg/kg				<b>70-13</b> 0	11.5	20	
o-Xylene	2.05	0.0500	mg/kg	2.00		103	<b>7</b> 0-130	12.6	20	
Total Xylenes	6.33	0.150	mg/kg	6.00		105	70-130	11.9	20	
1,1,2,2-Tetrachloroethane	1.85	0.0500	mg/kg	2.00		92.4	70-130	4.94	20	
Naphthalene	1.96	0.0500	mg/kg	2.00		97.8	70-130	7.18	20	
Surrogate: Dibromofluoromethane	0.456		mg/kg	0.500		91.3	70-130			
Surrogate: Toluene-d8	0.535		mg/kg	0.500		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.509		mg/kg	0.500		102	70-130			

#### Cardinal Laboratories

\*=Accredited Analyte

REPOSE NOTE: Jubility and Demogras. Condinat's lability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligance or any other causes whatsoever shall be deemed without a simple in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be labile for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of use,

Celey D. Keine

%REC



### Analytical Results For:

Eddie Seay Consulting

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

Source

Reported:

RPD

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

Fax To: (505) 392-6949

Spike

04-Sep-14 10:06

Reporting

#### Semivolatile Organic Compounds by GCMS - Quality Control

#### **Cardinal Laboratories**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
Blank (4080102-BLK1)				Prepared: (	1-Aug-14	Analyzed: 0	5-Aug-14			
Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
luorenthene	ND	0.040	mg/kg							
утепе	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
enzo[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							
urrogate: Nitrobenzene-d5	1.72		mg/kg	2.00		85.9	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.78		mg/kg	2.00		89.2	27.2-92.9			
urrogate: Terphenyl-dl4	2.09		mg/kg	2.00		105	21.3-96.1			
CS (4080102-BS1)				Prepared: (	01-Aug-14	Analyzed: 0	5-Aug-14			
Naphthalene	0.419	0.040	mg/kg	0.400		105	5.46-157			
-Methylnaphthalene	0.459	0.040	mg/kg	0.400		115	16.1-146			
Acenaphthylene	0.421	0.040	mg/kg	0.400		105	21.6-144			
Acenaphthene	0.426	0.040	mg/kg	0.400		107	27-143			
luorene	0.438	0.040	mg/kg	0.400		109	30.9-138			
henanthrene	0.440	0.040	mg/kg	0.400		110	38.6-149			
Anthracene	0.403	0.040	mg/kg	0.400		101	36.1-149			
Carbazole	0.439	0.040	mg/kg	0.400		110	29.8-144			

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: ...lability and Damogus. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount point by client for analyses. All claims, including those for negligence arising over causes whetsoever shall be deemed watered unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labile for incidental or consequential damage. Including, without limitation, business interruptions, loss of use, or loss

Celey & Keine



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 Fax To: (505) 392-6949

04-Sep-14 10:06

#### 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 4080102 - SW846-3510										
LCS (4080102-BS1)				Prepared: 0	1-Aug-14	Analyzed: 0	5-Aug-14			
Fluoranthene	0.425	0.040	mg/kg	0.400		106	34.6-148			
Pyrene	0.436	0.040	mg/kg	0.400		109	24.8-154			
Benzo[ajanthracene	0.438	0.040	mg/kg	0.400		110	0-179			
Chrysene	0.422	0.040	mg/kg	0.400		106	35.1-150			
Benzojbjilouranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]flouranthene	0.470	0.040	mg/kg	0.400		117	10.6-169			
Benzo[a]pyrene	0.436	0.040	mg/kg	0.400		109	2.25-166			
Indeno[1,2,3-cd]pyrene	0.397	0.040	mg/kg	0.400		99.3	0-181			
Dibenz[a,h]anthracene	0.427	0.040	mg/kg	0.400		107	2.49-177			
Benzo[g,h,i]perylene	0.467	0.040	mg/kg	0.400		117	0-173			
Surrogate: Nitrobenzene-d5	1.84		mg/kg	2.00		91.8	16.1-91.8			1
Surrogate: 2-Fluorobiphenyl	1.80		mg/kg	2.00		89.9	27.2-92.9			
Surrogate: Terphenyl-dl4	2.09		mg/kg	2.00		104	21.3-96.1			
LCS Dup (4080102-BSD1)				Prepared: 0	1-Aug-14	Analyzed: 0	5-Aug-14			
Naphthalene	0.412	0.040	mg/kg	0.400		103	5.46-157	1.63	6.7	
2-Methylnaphthalene	0.448	0.040	mg/kg	0.400		112	16.1-146	2.36	8.99	
Acenaphthylene	0.410	0.040	mg/kg	0.400		103	21.6-144	2.61	14.6	
Acenaphthene	0.421	0.040	mg/kg	0.400		105	27-143	1.34	6.99	
Fluorene	0.427	0.040	mg/kg	0.400		107	30.9-138	2.46	13.9	
Phenanthrene	0.414	0.040	mg/kg	0.400		103	38.6-149	6.14	14.6	
Anthracene	0.421	0.040	mg/kg	0.400		105	36.1-149	4.39	18.5	
Carbazole	0.436	0.040	mg/kg	0.400		109	29.8-144	0.743	23.4	
Fluoranthene	0.421	0.040	mg/kg	0.400		105	34.6-148	0.931	19.7	
Рутепе	0.434	0.040	mg/kg	0.400		108	24.8-154	0.488	23	
Benzo[a]anthracene	0.441	0.040	mg/kg	0.400		110	0-179	0.564	32.5	
Chrysene	0.427	0.040	mg/kg	0.400		107	35.1-150	1.17	19.4	
Benzo[b]flouranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo[kjflouranthene	0.412	0.040	mg/kg	0.400		103	10.6-169	13.2	44.6	
Benzo[ajpyrene	0.432	0.040	mg/kg	0.400		108	2.25-166	0.895	60.5	
Indeno[1,2,3-cd]pyrene	0.403	0.040	mg/kg	0.400		101	0-181	1.41	77	
Dibenzia, hjanthracene	0.430	0.040	mg/kg	0.400		108	2.49-177	0.849	63.3	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jability and Damages. Cardina's lability and client's exclusive remedy for any claim erising, whether based in contract or tort, shall be limited to the amount caid by client for analyses. All claims, including those for negligence an 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 lable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services nerworder by Cardinal, regardless of whether aux 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.

Celley & Keena



Eddie Seay Consulting 601 W. Illinois

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

Reported: 04-Sep-14 10:06

601 W. Illinois Hobbs NM, 88242

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

r: Eddie Seay

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 4080102 - SW846-3510

LCS Dup (4080102-BSD1)		Prepared: 01-Aug-14 Analyzed: 05-Aug-14									
Benzo[g,h,i]perylene	0.469	0.040	mg/kg	0.400	117	0-173	0.288	77.4			
Surrogate: Nitrobenzene-d5	1.75		mg/kg	2.00	87.7	16.1-91.8					
Surrogate: 2-Fluorobiphenyl	1.79		mg/kg	2.00	89.6	27.2-92.9					
Surrogate: Terphenyl-dl4	2.09		mg/kg	2.00	105	21.3-96.1					

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Libility and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for necklared any other cause whatsoever shall be deemed welved unless made in writing and neceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incitiantal or consequential damage including, without limitation, business interruptions, loss of use, or loss of confits incurred by client, its subsidiaries, diffiliates or successors arising out of or related to the performance of the services nervander by Cardinal, regardless of whether successors under subsidiaries, and the configuration of the doorestated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celen 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

04-Sep-14 10:06

Fax To: (505) 392-6949

# **General Chemistry - Quality Control**

#### **Green Analytical Laboratories**

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408150 - General Prep - Wet Chem										
Blank (B408150-BLK1)				Prepared &	Analyzed:	18-Aug-14				
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B408150-BS1)				Prepared &	Analyzed:	18-Aug-14				
Cyanide, Total	0.0416	0.0100	mg/kg wet	0.0500		83.2	80-120			
LCS Dup (B408150-BSD1)				Prepared &	Analyzed:	18-Aug-14				
Cyanide, Total	0.0460	0.0100	mg/kg wet	0.0500		92.0	80-120	10.0	20	

Cardinal Laboratories \*=Accredited Analyte

REPOSE NOTE: Liability and Demogras. Cardinen's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shell be limited to the amount beld by client for analyses. All claims, including those for negligence or any other causes whatsower shell be deemed watered unless made in writing and received by Cardinel within thirty (30) days after competition of the applicable service. In no event shell Cardinel be liable for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of use, or loss of such claims, its subsidents, affiliates or successors arising out of or related to the performance of the services remainder by Cardinel, regardess of whether successing any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinel Laboratories.

aley & Kuna



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

04-Sep-14 10:06

Fax To: (505) 392-6949

# Soluble (DI Water Extraction) - Quality Control

# **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408065 - General Prep - Wet Chem										
Blank (B408065-BLK1)				Prepared &	Analyzed: (	08-Aug-14				
Nitrite as N	ND	0.200	mg/kg wet							
LCS (B408065-BS1)				Prepared &	Analyzed: (	08-Aug-14				
Nitrite as N	0.101	0.020	mg/kg wet	0.100		101	80-120			
LCS Dup (B408065-BSD1)				Prepared &	Analyzed: (	08-Aug-14				
Nitrite as N	0.100	0.020	mg/kg wet	0.100		100	80-120	0.995	20	
Batch B408161 - General Prep - Wet Chem										
Blank (B408161-BLK1)				Prepared &	Analyzed:	19-Aug-14				
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
LCS (B408161-BS1)				Prepared &	Analyzed: 1	19-Aug-14				
Nitrate/Nitrite as N	1.08	0.020	mg/kg wet	1.00		108	80-120			
LCS Dup (B408161-BSD1)				Prepared &	Analyzed: 1	19-Aug-14				
Nitrate/Nitrite as N	1.08	0.020	mg/kg wet	1.00		108	80-120	0.00	20	
Batch B408235 - General Prep - Wet Chem										
Blank (B408235-BLK1)				Prepared &	Analyzed: 2	26-Aug-14				
Fluoride	ND	0.200	mg/kg wet							
LCS (B408235-BS1)				Prepared &	Analyzed: 2	26-Aug-14				
Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115			

Cardinal Laboratories \*=Accredited Analyte

\*\*REE NOTE: Jability and Demagos. Cardinel's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shell be limited to the amount paid by client for analysiss. All claims, including those for negligence or any other cause whetacover shell be deemed waked unless made in writing and necehod by Cardinel within thirty (30) days after completion of the applicable senter. In no event shell Cardinel be lable for including, without limitation, business interruptions, loss of use, or loss of use or use, or loss of use,

Celey & Kuna



**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

04-Sep-14 10:06

Fax To: (505) 392-6949

#### Soluble (DI Water Extraction) - Quality Control

#### **Green Analytical Laboratories**

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

Batch B408235 - General Prep - Wet Chem

LCS Dup (B408235-BSD1)			Prepared &	Analyzed: 26-Aug-14				
Fluoride	1.06	0.200 mg/kg wet	1.00	106	85-115	0.189	20	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demograe. Condinates liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed walved unless made in writing and neceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lable for incidental or consequential demaga including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, difflates or aucressons arising out of or nelated to the performance of the services remainder by Cardinal, regardless of whether suc 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.

Celeg D. Keena



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

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

04-Sep-14 10:06

Fax To: (505) 392-6949

#### Total Metals by ICP - Quality Control

#### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408112 - EPA 3050										
Blank (B408112-BLK1)				Prepared: 1	3-Aug-14	Analyzed: 2	0-Aug-14			
Iron	ND	0.050	mg/kg dry							
Zinc	ND	0.050	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
LCS (B408112-BS1)				Prepared: 1	3-Aug-14	Analyzed: 2	0-Aug-14			
Iron	3.70	0.050	mg/kg dry	4.00		92.5	85-115			
Barium	1.81	0.010	mg/kg dry	2.00		90.6	85-115			
Zinc	1.82	0.050	mg/kg dry	2.00		90.9	85-115			
LCS Dup (B408112-BSD1)				Prepared: 1	3-Aug-14	Analyzed: 2	0-Aug-14			
Barium	1.76	0.010	mg/kg dry	2.00		88.2	85-115	2.73	20	
Zinc	1.76	0.050	mg/kg dry	2.00		88.1	85-115	3.13	20	
Iron	3.61	0.050	mg/kg dry	4.00		90.3	85-115	2.36	20	

Cardinal Laboratories \*=Accredited Analyte

RESC NOTE: Liability and Demages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence arising of the applicable service. In no event shall be deemed within any claims and the including, without limitation, business interruptions, loss of use, or loss of use and use of use of use of use of use or use of use of

Celeg & Keene



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 04-Sep-14 10:06

Project Number: C & C LANDFARM Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### Total Metals by ICPMS - Quality Control

### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408170 - EPA 3050M										
Blank (B408170-BLK1)				Prepared &	Analyzed:	21-Aug-14				
Silver	ND	0.0001	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
ead	0.0008	0.0005	mg/kg dry							В
Franium	ND	0.0001	mg/kg dry							
elenium	ND	0.0010	mg/kg dry							
Manganese	0.0016	0.0005	mg/kg dry							В
Chromium	ND	0.0010	mg/kg dry							
copper	0.0004	0.0001	mg/kg dry							M
rsenic	ND	0.0005	mg/kg dry							
CS (B408170-BS1)				Prepared &	Analyzed:	21-Aug-14				
Copper	0.491	0.0001	mg/kg dry	0.500		98.1	85-115			
lver	0.473	0.0001	mg/kg dry	0.500		94.7	85-115			
ranium	0.550	0.0001	mg/kg dry	0.500		110	85-115			
fanganese	0.534	0.0005	mg/kg dry	0.500		107	85-115			
thromium	0.481	0.0010	mg/kg dry	0.500		96.2	85-115			
elenium	2.80	0.0010	mg/kg dry	2.50		112	85-115			
rsenic	0.552	0.0005	mg/kg dry	0.500		110	85-115			
admium	0.533	0.0001	mg/kg dry	0.500		107	85-115			
ead	0.519	0.0005	mg/kg dry	0.500		104	85-115			
CS Dup (B408170-BSD1)				Prepared &	Analyzed:	21-Aug-14				
ilver	0.453	0.0001	mg/kg dry	0.500		90.6	85-115	4.43	20	
rsenic	0.513	0.0005	mg/kg dry	0.500		103	85-115	7.30	20	
opper	0.494	0.0001	mg/kg dry	0.500		98.7	85-115	0.578	20	
<b>Tranium</b>	0.560	0.0001	mg/kg dry	0.500		112	85-115	1.82	20	
Manganese	0.530	0.0005	mg/kg dry	0.500		106	85-115	0.879	20	
elenium	2.64	0.0010	mg/kg dry	2.50		106	85-115	5.96	20	
Chromium	0.484	0.0010	mg/kg dry	0.500		96.8	85-115	0.608	20	
admium	0.516	0.0001	mg/kg dry	0.500		103	85-115	3.21	20	
ead	0.509	0.0005	mg/kg dry	0.500		102	85-115	1.88	20	

#### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether bessed in contract or tort, shall be limited to the amount cast by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be liable for incidental or corresponding including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether su cleim is besed upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shell not be reproduced except in full with written approval of Cardinal Laboratories.

Celley & Keena



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

04-Sep-14 10:06

Fax To: (505) 392-6949

### **Total Mercury by CVAA - Quality Control**

### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408164 - EPA 7471										
Blank (B408164-BLK1)				Prepared &	Analyzed:	20-Aug-14				
Mercury	ND	0.0002	mg/kg wet							
LCS (B408164-BS1)				Prepared &	Analyzed:	20-Aug-14				
Mercury	0.0019	0.0002	mg/kg wet	0.00200		93.6	85-115			
LCS Dup (B408164-BSD1)				Prepared &	Analyzed:	20-Aug-14				
Mercury	0.0019	0.0002	mg/kg wet	0.00200		96.1	85-115	2.69	20	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other causes whatsoever shall be deemed wetweld unless made in withing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be labile for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of softis incurred by client, its subsidents, difference or successors arising out of or related to the performance of the services necessary of the services resource or otherwise. Results related to sometimes that the services are successors or otherwise. Results related necessor or otherwise. Results related above that one control of the services are successors or otherwise. Results related above that of the services are successors or otherwise.

Celey & Keine



### **Notes and Definitions**

Z-01d	2.1 ± 0.8
Z-01c	$1.4 \pm 0.8$
Z-01b	0.7 ± 0.1
Z-01a	$0.6 \pm 0.1$
Z-01	$0.5 \pm 0.1$
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-AL	Analysis subcontracted to Anatek Labs, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
H2	Sample analysis performed past hold time specified by the method.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
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

Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Jability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance or any other cause whatsoewer shall be deemed wither made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be labile for incidental or consequential demage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidences, affiliates or successors arising out of or related to the performance of the services mensurder by Cardinal, regardless of whether suc dains is based upon any of the above stated research or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley & Keena



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Edd, 4 Company Name: City: H ob ا طی Address: (مال HYDAYII Project #: roject Location: 3. roject Name: CA-C none #: Sampler - UPS - Bus - Other: 4 Lab I.D. ampier Name: Delivered By: (Circle One) Cte (575) 393-2326 FAX (575) 393-2476 E Sample i.D. city noon post ann Project Owner: J. Cane Fax #: 392 State: NUM Zip: 20 FEL Date: D': JG Time: 3-20-37 A+B 4100-19 C (G)RAS OR (C)OMP 69.49 # CONTAINERS GROUNDWATER Sample Condition
Cool Intact
Ples 16s
No No WASTEWATER MATRIX OIL SLUDGE P.O. #: Attn: OTHER Addres Company: Fax # Phone #: ACID/BASE PRESERV ICE / COOL CHECKED BY: OTHER: SAMPLING uit paid by See diard See See yn nêw completien af the applicable od by effect, the subsidiaries, the Ingeries of otherwises, 3:/0 3.0D 1:30 Phone Result: ☐ Yes ☐ No Add'I Phone #:
Fax Result: ☐ Yes ☐ No Add'I Fax #:
REMARKS: A+B 6010 B ~ 87608 (802) (300. 20.4.2313 ANALYSIS REQUEST 6020 Seay of & leavo. net

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240	5												
(5/5) 393-2325 FAX (5/5) 393-24/6									l	l			
CT LOWSTON						Ą	ANALYSIS REQUEST	S R	QUE	TS			
Project manager: Calol Calo		P.O. W.								-		•	
Address: Los Los Ill calors		Company:					ه_					m	
5	Zp: 97 2 (2	Attn:				<u> </u>	بط			L	ڀ	rg'	U
#: 0 2236 Fax#: 2.	6949	Address.				_	or		IN 0	(O)	1	A.	
CF Project Owner	<u>ાં</u> જિલ્લ	City:				(	ط		10	1	ri		
me: C+C Land	_	State: Zip.						<u>م</u>	HQ.		ما	3	
m S. Monum	ر 12 ما	*					<u> </u>	n		\ \ \	h	Q,	
	_ 1	Eav #					ns ,	ZX	<u>د</u>	<u>_</u>	<u>C</u>	<u>~</u>	
POR LAB UNE DATA	MATRIX	PRESERVÍ SAMPLING	5		_		4		1	ای		W	
	R				<u> </u>	E	ara Vhr	R	- la	ra	ای	7.00	
Lab I.D. Sample I.D.	GOOD OR (C) CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	ED C	DEE	PCE	7C	Men Chl	FT	Thi	Tet	Vin	90/4	
C+10 G-1	V	•	1:30			$\parallel$	$\parallel$	$\parallel$	$\parallel$	#			
C.80 G - 2	2 2	2/8/5	ار ایزیکا			+	$\dagger$	†	1	T			
6.00 G - 3	0 <b>6</b> V	2/8/5	3:/0				+	Ħ					
C20 G- 4	V 6 V	v 9/5	4.00			$\prod$	H	$\dagger$	$\dagger$	$\parallel$			
								$\sqcap$	TT				
							+	11					
PLEASE HOTE: Usably and Demagas. Cardeath stability and clearly exclusive remarks for an emajoras. All chains including these for negligance and any other cause whetherest shall be do	y alain arising whether bessed in sees grafter in shore, seesless beather beath	er bet, abad be feelbed to the sensual	paid by the clared for the	1		-	+	f	l	ı		-	
	Received By:	n h besed upon wy gi fin phere which i	Phone Result	1		1	F 1						
Salar	racerved by:		Fax Result: REMARKS:	O Yes		1 1	Add'l Fax #:	3					
Ralinquished By: Date:	Received By:		4	4+3	•	S C	· 9 · 6°C	. 0.	2318	) W			
Delivered By: (Circle One)	Sample Condition Cool Intact	Ition CHECKED BY:		c	6	C		C	8				
Sampler - UPS - Bus - Other:	□	- I		3									

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

Page 37 of 38



CHAIN-
OF-CUST
ODY AND
ANALYS
IS REQUES
EST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	240 · · · · · · · · · · · · · · · · · · ·		
ompany Name: C+C Condform	5	====7/3:47	ANALYSIS REQUEST
roject Manager: Ed Cal		P.O. #:	
iddress: LOI LU III Nois	\$	Company:	
doos	742 MZ 142	Attn:	
2236 =	ا فــا	Address:	22
roject#: C+C LF Project Owner:		City:	
THE CAC COMIT	(30/2)	State: Zip:	
on: 52	20:37	Phone #:	~~
	(4HF)	Fax #:	الم الم الم الم
	MATRIX	PRESERV. SAMPLING	- NA
Lab I.D. Sample I.D.		SE:	men H H
	# CON	ACID/S ICE / C OTHER	٠
(a) 6 - )	ر د د	C 220	1:50
ج - ي ومي	2	2 8 5 2:	/5
6	2,6		02:0
C. 2 (5 - 4	0	1 2 2 4	4: Bo
PLEASE NOTE: Usably and Demogra. Cardinath balany and down's exclusive remody is employen. All dates to state the employees and any above cases windown to the service. In or world stad Corphole he hads for incidental or encountered demograp, to the service. In or world stad Corphole he hads for incidental or encountered demograp.	r siy dain arisig windar based it costs be descret whited when made it willing a when the latest beauty in the second	rect or tori, shad be lambed to the amount point by the end received by Comband totals. 30 days where even the electric state of the	Ty the cloud for the control of the
Relinquished By:    Date: 9   0	Received By:	The best upon any of the above stated research.  Ph	eas of deviates.  Phone Result: □ Yes □ No Add1 Phone #:  Fax Result: □ Yes □ No Add1 Fax #:
	21	7.0	3
Refinquished By: Date:	Received By:		A+B 20.6.25/3
Delivered By: (Circle One)	Sample Condition Cool Intact	ition CHECKED BY:	
Sampler - UPS - Bus - Other:	□ Yes □ Yes		

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

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

RE: C & C Landfarm (NM-01-0012) Bi-Annual Test

Final 5 yr. Test

Mr. Jones:

Find enclosed the b-annual treatment zone, vadose zone and final 5 yr. test of the remaining cells at C & C Landfarm.

In comparing the analytical to the background and the lab PQL, I have found that the test for cell G has slightly elevated TPH. As per E-5 of the rules, I am proceeding with the sampling of the constituents listed in subsection A and B of 20.6.2.3103 NMAC. When the analytical has been received, it will be submitted to the OCD with a plan of action.

If you have any questions or need anything further, 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 (J. Cooper)

Zddie W Ken



June 20, 2014

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 06/13/14 10:05.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey 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:

06/13/2014

Sampling Date:

06/12/2014

Reported:

Sampling Type:

06/20/2014

Sampling Condition:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL A - T (H401807-01)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/18/2014	ND	400	100	400	3.92	
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	<50.0	50.0	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	818	50.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	83.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	125	% 63.6-15	i4						

### Sample ID: CELL B - T (H401807-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	647	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

### \*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demagos. Cardina's liability and clean's exclusive remedy for any cleim arising, whether pased in contract or tort, shell be limited to the amount paid by clent for analyses. All cleims, including those for negligence and any other cause whatsoever shell be deemed waived unless made in writing and neceived by Cardinal within thirty (30) days after completton of the applicable service. In no event shell Cardinal be liable for incidental or correspuential damagos, hickuring, without limitation, business interruptions, loss of use, or loss of use, or loss of shell incidental accounts of the services are standard part only of the above stated reasons or otherwise. Results related above. The importance of produced except in full with writing approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

Sampling Type:

Soil

06/20/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number: C & C LANDFARM - TREATMENT ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL C - T (H401807-03)

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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	17.2	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	75.1	% 65.2-14	0		, , , , , , , , , , , , , , , , , , , ,				
Surrogate: 1-Chlorooctadecane	76.6	% 63.6-15	4						

### Sample ID: CELL D - T (H401807-04)

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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	115	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	77.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.5	% 63.6-15	4						

### \*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demagas. Cardinal's liability and clerk's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for neighborhood any other cause whatsower shall be desembed 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 corresponded demagas, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clerk, its subsidiaries, afflictes 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 semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



**Eddie Seay Consulting** Eddie Seay

601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

Sampling Type:

Soil

06/20/2014

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL E - T (H401807-05)

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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	70.6	% 65.2-14	0			,			
Surrogate: 1-Chlorooctadecane	70.6	% 63.6-15	4						

### Sample ID: CELL F - T (H401807-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	121	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	71.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	75.1	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clern's exclusive remedy tor any cleim arising, whether pased in contract or tort, shall be limited to the amount paid by cleint 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 cleint, its subsidiaries, affiliates or successors arising out of or related to the performance of the services reneunder by Cardinal, regardless of whatever 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

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

Sampling Type:

06/20/2014

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE NONE GIVEN

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

Project Number:

MONUMENT, NM SECT 3

Project Location:

### Sample ID: CELL G - T (H401807-07)

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	06/18/2014	ND	400	100	400	<b>3.9</b> 2	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	67.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	71.4	% 63.6-15	4						

### Sample ID: CELL H - T (H401807-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			00 400 covery True Value QC 7.0 200		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	66.3	% 65.2-14	0	, <u> </u>	***************************************				
Surrogate: 1-Chlorooctadecane	66.9	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardina's liability and clients exclusive remedy for any claim arising, whether cessed 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 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 corresponding demagas, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitatives, affiliatives or successors arising out of or related to the performance of the services nervolves remarked by Cardinal, regardless of whether such claims is bested 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. Keene



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

Fax To: (505) 392-6949

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

06/20/2014

Sampling Type:

00/12/201

Project Name:

00/20/2017

Sampling Condition:

Soil Cool & Intact

Project Number:

C & C LANDFARM - TREATMENT ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL I - T (H401807-09)

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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	75.9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	75.0	63.6-15	i <b>4</b>						

### Sample ID: CELL J - T (H401807-10)

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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	60.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	92.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	04 0	% 636.15	. A						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Libbility and Demages. Cardina's liability and clenifs exclusive remedy for any cleim arising, whether pased in contract or tort, shell be limited to the amount paid by clein for analyses. All cleims, including those for negligence and any other cause whistower shell be deemed walved unless model in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shell Cardinal be liable for incidental or corresponding demages, historian, without limitation, business interruptions, loss of use, or loss of smith incurred by cleint, its substituties, affiliates or successors arising out of or related to the performance of the services necessary or contractive. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

06/20/2014

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 SECT 3

### Sample ID: CELL K - T (H401807-11)

Chioride, 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	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	29.9	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	69.09	65.2-14	0						
Surrogate: 1-Chlorooctadecane	73.4 9	63.6-15	4						

### Sample ID: CELL L - T (H401807-12)

Chioride, 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	06/18/2014	ND	400	100	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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	68.8	% 65.2-14	0						10.00
Surrogate: 1-Chlorooctadecane	65.6	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cardina's liability and clern's exclusive remodul for any cleim arising, whether based in contract or tort, shell be limited to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whistoneer shell be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal be liable for incidental or correspuential demagas, including, without limitation, business interruptions, loss of use, or loss of use of u

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

06/13/2014

Sampling Date:

06/12/2014

Reported:

06/20/2014

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Sample Received By:

Jodi

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL M - T (H401807-13)

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	06/18/2014	ND	400	100	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	<50.0	50.0	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	66.2	50,0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	92.3	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardina's liability and clern'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 negligence and any other cause whistower shall be deemed walved unless mode 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 damagas, including, without limitation, business interruptions, loss of use, or loss of use of profits incurred by cleint, its substitatives, afflicates or successors arising out of or related to the performance of the services renunder by Cardinal, regardless of whether such claims because upon any of the above station resource or otherwise. Results relate only to the samples identified above. This

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-8 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 Demagas. Cardina's liability and clern's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount paid by clern for analyses. All claims, including those for negligence and any other cause whelsower shall be deemed welved unless made in writing and neceled by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damagas, hickding, without limitation, bushess interruptions, loss of use, or loss of or orbits incurred by client, its substitiatives, efflicities or successors arising out of or related to the performance of the services necessors creamind by Cardinal, regardless of whether such claims beased upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This reportshall not be reproduced except in full with written approvel of Cardinal Laboratories.

Celey D. Keine



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:

### いるい

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>ب</b> ر ایر		ON CHECKED BY:	Sample Condition Cool Intact Cool Intact Fives Erres No No	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Delivered By Sampler - UPS
the farmer	N- F		Rachived By:	Date:	Relinquished B
No Add Fax #:	. U Y98	TEMARKS:	200 COU JU		( Medal
No Add'! Phone #:	JR: 0 Yes 0	den, be beed upon any of the above stated by dear, is substant them is beend upon any of the above stated reasons or otherwise.  Phone Result	order by Cardnat, regardless of whether such claim  Received By:	Big out of or related to the performance of services han by:    Date:	Reinquished By
	re clent for the pletton of the applicable	had to the amount paid by the real within 30 days after com-	mady for any claim arising whether based in contract or fort, shall be lim or shall be deemed waived unless made in verting and received by Cardo	and Damages. Cardwal's Substry and oben's exclusive n leg trace for negligence and any other cause whethory	PLEASE NOTE: Liability and Damages analysis. All claims including bross for
	\(\frac{1}{2}\)	A 6 : C 2 : (9 h	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	المقلا المقدا	12
	5 7 7	y 4121:35	2	Q	12
	3 4 4 4	01:1 71/2	2	C	-
			# CO		H40807
	IP Ch	COOL		Sample I.D.	Lab I.D.
	Jo.		ERS ATER		
	19	PRESERV. SAMPLING	MATRIX		FOR LAB USE ONLY
	Z.	Fax #:		Fillie Seen	Sampler Name:
	7	Phone #:		" U.T. 8 S. 13.	Project Location:
	9	State: Zip:	20. 01. Ser2	-C Lands	Project Name: Ca
	, (-	City:	J. Copper	ر د کر	Project #: C+C
	50	Address	69	2236	Phone #: 💋
	٥٠	Attr:	State: NN Zip: SKA4Z		
	)	Company:		or wall with	Address: /aD
		P.O. #:	0		Project Manager:
ANALYSIS REQUEST	2.5		Gna tto	Eddie Sam	Company Name:



July 03, 2014

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 06/27/14 10:35.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey 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: Reported: 06/27/2014

07/03/2014

Project Name: Project Number: C & C LANDFARM NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL B - V (H401947-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	< 0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 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	<16.0	16.0	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damagas. Cardinal's liability and clerk's exclusive remedy for any claim arising, whether seed in contract or tort, shall be limited to the amount paid by clerk for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thity (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damagas, including without limitation, such passes interputions, loss of use, or loss of another incurred by clerk its absolutions or successors arising out of or related to the performance of the services rereunder by Cardinal, regardless of whather 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

Received:

06/27/2014

Reported:

07/03/2014

Project Name: Project Number: C & C LANDFARM NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL C - V (H401947-02)

BTEX 8021B	mg/	'kg	Analyze	d <del>By:</del> CK	<del></del>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.5 <b>9</b>	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 89.4-12	6	,					
Chloride, SM4500CHB	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	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any cleim arising, whether seed in contract or tort, shall be limited to the amount paid by cleim tor analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or correspuential damages, holding, without limitation, business interruptions, loss of use of use of use of softes incurred by client, its absolidance, affiliates or accessors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated resource or otherwise. Results related into the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeg D. Keine



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

Fax To:

(505) 392-6949

Received:

06/27/2014

Reported:

07/03/2014

Project Name: Project Number: C & C LANDFARM NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL D - V (H401947-03)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 89.4-12	?6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and claim's exclusive remedy for any claim arising, whether pased in contract or tord, shall be limited to the amount paid by clerk 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 corresponding days, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clerk, its aubsidiances, affiliates or successors arising out of or related to the performance of the services nanunder by Cardinal, regardless of whether such cleim 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. Keena



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

Fax To: (505) 392-6949

Received: Reported: 06/27/2014

07/03/2014

Project Name:

C & C LANDFARM

Project Number:

NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL E - V (H401947-04)

mg/	kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
<0.300	0.300	06/30/2014	ND					
99.3	% 89.4-12	6		.,,,,				
mg/	'kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	06/30/2014	ND	400	100	400	0.00	
mg/	'kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<100	100	06/30/2014	ND		105	5000	0.266	
	Result <0.050 <0.050 <0.050 <0.150 <0.300  99.3: mg/ Result <16.0 mg/ Result	<0.050	Result         Reporting Limit         Analyzed           < 0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           < 0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           < 0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           < 0.050

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Demages. Cardina's liability and clern's exclusive remedy for any cleim arising, whether passed in contract or tord, shall be limited to the amount paid by clein for analysis. All cleims, including those for negligence and any other cause whatsoever shall be deemed walved unless mode in withing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, hickuring, without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its substitiaries, affiliates or successors arising out of or related to the performance of the services harundar by Cardinal, regardless of whether such claims is beset upon any of the above stated reasons or otherwise. Results related whose the report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To: (505) 392-6949

Received: Reported: 06/27/2014

07/03/2014

Project Name:

C & C LANDFARM

Project Number: Project Location:

NOT GIVEN
MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL G - V (H401947-05)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 89.4-12	6						
Chioride, 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	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	107	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Usbillty and Demogras. Cardina's liability and client's exclusive remedy for any client arising, whether pased in contract or tort, shall be finished to the amount paid by client for any other cause whatsoever shall be deemed where 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 corresponded demogras, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, as bubblishers, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whather such client 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 D. Keine



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

Fax To: (505) 392-6949

Received:

06/27/2014

Reported:

07/03/2014 C & C LANDFARM

Project Name: Project Number:

NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: CELL H - V (H401947-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 89. <b>4</b> -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>B</b> S	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>8</b> S	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and clent's exclusive namedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whethcower shall be deemed welved. Inless made in withing 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, historian, without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its substates, afflicities or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether such claims besend upon any of the above stated reasons or otherwise. Results related above. The report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keina



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

Fax To: (505) 392-6949

Received:

06/27/2014

Reported:

07/03/2014

Project Name: Project Number: C & C LANDFARM NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: CELL K - V (H401947-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 89.4-12	6						
Chloride, SM4500CI-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	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinel's liability and cleants exclusive remedy for any clean arising, whether pased in contract or tort, shall be limited to the amount paid by cleant for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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 corresquential damages, including, white the participation, loss of use, or loss of profits incurred by clearly, including, white the participation is considered and the participation 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. Keena



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

Fax To: (505) 392-6949

Received:

06/27/2014

Reported:

07/03/2014 C & C LANDFARM

Project Name: Project Number:

NOT GIVEN

Project Location:

MONUMENT, NM

Sampling Date:

06/26/2014

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: CELL M - V (H401947-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2014	ND	1.74	86.9	2.00	9.88	
Toluene*	<0.050	0.050	06/30/2014	ND	1.81	90.5	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/30/2014	ND	1.59	79.4	2.00	11.2	
Total Xylenes*	<0.150	0.150	06/30/2014	ND	4.90	81.6	6.00	12.6	
Total BTEX	<0.300	0.300	06/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	<16.0	16.0	06/30/2014	ND	400	100	400	0.00	
TPH 418.1	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/30/2014	ND	5250	105	5000	0.266	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demoges. Cardina'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 analysis. All claims, including those for negligence and any other cause whatsower 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 corresponding demogras, including, without limitation, business interruptions, loss of use, or loss of use, or loss of use, or loss of use, or loss of shall be incidental or corresponding out of or related to the performance of the services networker by Cardinal, regardless of whather 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 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

PLEASE NOTE: Liability and Demages. Continents liability and clernits 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 whistower shall be deemed when during and received by Continent within 11th (33) days after completion of the applicable service. In no event shall Contine be liable for incidental or consequential demages, including without limitation, but here are the continent of the services rereunder by Continent be continent by Continent between the services rereunder by Continent between the services rerected by the services rerected

Celey D. Kuna



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Time:  Delivered By: (Circle One)  Sampler - UPS - Bus - Other:  Cardinal cannot accept verbal changes. Please fax written changes to [575] 393-237  Cardinal cannot accept verbal changes. Please fax written changes to [575] 393-237	Project Manager: J. Cappay  Address: Project State: M. Zip: BRA65  City: Project state: M. Zip: BRA65  Project Location: S.1 & T. Zo. K. 37 . Monume  Sampler Name: F. J. Sample I.D.  Lab I.D. Sample I.D. Sample I.D.  Lab I.D. Sample I.D. Girab or (Containers  GROUNDWATER WASTEWATER WASTEWATER JOIL OIL SLUDGE	Company Name: CLO / LO
By:  By:  Cool Intact  Cool Intact  No 1975  Changes to 1975  CHECKED BY:  Changes to 1975  CHECKED BY:  Changes to 1975  Cha	OTHER Address: LOI W ZID: ROY O Phono #: 3. 22 36 Fax #: 3. 22 36 OTHER OTHER OTHER  OTHER  OTHER  OTHER  ACID/BASE PRESERV  SAMPLING J J J J J J J J J J J J J J J J J J J	BILL TO
The applicable of the applicable with the applicable of the applicable with the applic	<pre> <cccccc (418.1)="" (8021="" 3="" 6="" 602="" 7="" 8="" 8<="" <cccccc="" b)="" btex="" chloride="" th="" tph=""><th>ANALYSIS REQUEST</th></cccccc></pre>	ANALYSIS REQUEST



July 22, 2014

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 07/01/14 10:15.

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

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

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

Method SM 9223-B

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

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey & Keene



Eddie Seay Consulting

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

Reported: 22-Jul-14 16:01

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

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL A-1	H401976-01	Soil	30-Jun-14 06:40	01-Jul-14 10:15
CELL A-2	H401976-02	Soil	30-Jun-14 07:20	01-Jul-14 10:15
CELL A-3	H401976-03	Soil	30-Jun-14 08:00	01-Jul-14 10:15
CELL A-4	H401976-04	Soil	30-Jun-14 08:35	01-Jul-14 10:15
CELL I-1	H401976-05	Soil	30-Jun-14 09:10	01-Jul-14 10:15
CELL I-2	H401976-06	Soil	30-Jun-14 09:45	01-Jul-14 10:15
CELL I-3	H401976-07	Soil	30-Jun-14 10:15	01-Jul-14 10:15
CELL I-4	H401976-08	Soil	30-Jun-14 10:55	01-Jul-14 10:15
CELL F-1	H401976-09	Soil	30-Jun-14 11:40	01-Jul-14 10:15
CELL F-2	H401976-10	Soil	30-Jun-14 12:15	01-Jul-14 10:15
CELL F-3	H401976-11	Soil	30-Jun-14 01:00	01-Jul-14 10:15
CELL F-4	H401976-12	Soil	30-Jun-14 01:35	01-Jul-14 10:15
CELL L -1	H401976-13	Soil	30-Jun-14 03:10	01-Jul-14 10:15
CELL L-2	H401976-14	Soil	30-Jun-14 04:00	01-Jul-14 10:15
CELL L-3	H401976-15	Soil	30-Jun-14 04:40	01-Jul-14 10:15
CELL L-4	H401976-16	Soil	30-Jun-14 05:15	01-Jul-14 10:15

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Damages. Cardinal's labelity and clean's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount celd by client for analyses. All claims, including those for regigence and any other cause whetscover shall be deemed weived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the amount celd by client for analyses. 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 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. Keine



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

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

Reported:

Project Number: C & C LANDFARM

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELLA-1 H401976-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	605		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070104	AP	03-Jul-14	4500-Cl-B	
Conductivity	367		0.250	uS/cm	1	4071603	AP	17-Jul-14	120.1	
pH*	7.43		0.100	pH Units	1	4070907	AP	16-Jul-14	9045	
Sulfate	ND		100	mg/kg	10	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	496		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### **Green Analytical Laboratories**

General Chemistry								
% Dry Solids	97.6	%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP								
Calcium	37400	1000 mg/kg	dry 1000	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	8480	5.00 mg/kg	dry 100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	3600	100 mg/kg	dry 100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	2300	100 mg/kg	dry 100	B407150	JGS	16-Jul-14	EPA6010B	

### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Jubility and Damages. Cardinel's liability and cleant's exclusive remoty for any date arising, whether based in contract or tort, shell be limited to the amount paid by client for analyses. All cleans, including those for registerice and any other cause whatsoever shell be disensed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal pe liable for incidental or consequential damages, including, without limitation, business information, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or aucressors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients besent upon any of the obove stated resource or otherwise. Results refer to the performance of the services hereunder by Cardinal and the services hereu

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL A-1 H401976-01 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
		Green Anal	ytical Lab	oratories						
Total Metals by ICP										
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B		
Zinc	33.5	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B		
Total Metals by ICPMS										
Arsenic	2.36	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Barium	88.7	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Cadmium	0.449	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Chromium	7.42	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Copper	5.91	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Lead	7.36	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Manganese	159	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A		
Total Mercury by CVAA										
Mercury	ND	0.100	mg/kg dry	490	B407175	JGS	17-Jul-14	EPA7471	Vı	

Cardinal Laboratories \*=Accredited Analyte

REPOSE NOTE: Jubbilly and Damages. Cardine's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shell be limited to the amount policy client for analyses. All cleims, including those for negligence and any other cause whetspower shell be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal pe liabile for incidental or correspounded damages, including, without limitation, business information, loss of use, or loss of use, or loss of profits incurred by client, its subclockines, efflicates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients besent 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 D. Keina



Eddie Seay Consulting

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

Reported: 22-Jul-14 16:01

Project Number: C & C LANDFARM

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

### CELL A-2 H401976-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	547		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070104	AP	03-Jul-14	4500-C1-B	
Conductivity	310		0.250	uS/cm	1	4071603	AP	17-Jul-14	120.1	
pH*	7.54		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		100	mg/kg	10	4071406	AP	15-Jul-14	375.4	
Alkalinity, Totai*	448		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
ТРН 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	96.4		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	32000	1000 m	ng/kg dry	1000	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	7570	5.00 n	ng/kg dry	100	B407150	JGS	16-Jui-14	EPA6010 B	
Magnesium	2500	100 r	ng/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	1890	100 n	ng/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100 m	ng/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Demages. Cardinal's liability and client's exclusive remady for any cleim arising, whether based in contract or bort, shall be limited to the amount paid by cleint for analyses. All cleims, including those for negligence and any other cause whetsoever 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 limited by cleint, it is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereundar by Cardinal, regardless of whether such cleim 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. Keina



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

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

Reported:

Project Number: C & C LANDFARM

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL A-2 H401976-02 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICP									
Zinc	27.8	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	2.48	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	82.7	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.442	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	6.78	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	5.38	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	5.74	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	122	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	0.204	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.105	mg/kg dry	505	B407175	JGS	17-Jul-14	EPA7471	V1

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Lebitity and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for hepigoprice 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 limited to the contract or tort, shall be illimited to the applicable service. In no event shall Cardinal be limited to recreate the property of the applicable service. In no event shall Cardinal be limited to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 22-Jul-14 16:01

Hobbs NM, 88242

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

Fax To: (505) 392-6949

### CELLA-3 H401976-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	547		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070104	AP	03-Jul-14	4500-CI-B	
Conductivity	325		0.250	uS/cm	1	4071603	AP	17-Jul-14	120.1	
pH*	7.48		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		100	mg/kg	10	4071406	AP	15 <b>-Jul-1</b> 4	375.4	
Alkalinity, Total*	448		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### Green Analytical Laboratories

General Chemistry									
% Dry Solids	99.0		%	1	B407078	LLG	10-Jul-14	EPA160.3	Н2
Total Metals by ICP									
Calcium	35100	1000	mg/kg dry	1000	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	8230	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	3220	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	2190	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jubility and Damages. Cardinal's lability and clients evolutive remedy for any date arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whetsoever 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 limited or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL A-3 H401976-03 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Labo	oratories					
Total Metals by ICP									
Zinc	30.6	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	2.31	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	88.1	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.446	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	6.53	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	5.70	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	6.72	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	143	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0970	mg/kg dry	480	B407175	JGS	17-Jul-14	EPA7471	V1

### Cardinal Laboratories

\*=Accredited Analyte

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

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL A-4 H401976-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	410		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070104	AP	03-Jul-14	4500-C1-B	
Conductivity*	339		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.60		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	336		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### **Green Analytical Laboratories**

% Dry Solids	97.7		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	17900	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	7490	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	2790	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	1970	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

#### Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Jublity and Damages. Cardina's lability and cliant's exclusive remedy for any data arising, whether based in contract or bort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whatsoever shall be deemed watved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pe liable for incidental or consequential demages, 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 hereundar 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 Leboratories.

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELLA-4 H401976-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	oratories					
Total Metals by ICP										
Zinc	26.1		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.98		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	65.0		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.351		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	5.88		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	4.73		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	5.37		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	120		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.0992	mg/kg dry	485	B407175	JGS	17-Jul-14	EPA7471	V1

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Demages. Cardina's lebility and clean's exclusive remedy for any dain arising, whether based in contract or bort, shall be limited to the amount paid by clear 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 thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business informations, loss of use, or loss of use, or loss of profits incurred by claim, it is subsidiaries, efflicities or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated measures or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writins approved of Cardinal Laboratories.

Celey D. Keine



**Eddie Seay Consulting** 

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

Reported:

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL I-1 H401976-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	195		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070104	AP	03-Jul-14	4500-CI-B	
Conductivity*	180		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.91		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	160		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jui-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

#### Green Analytical Laboratories

General Chemistry								
% Dry Solids	92.5	%	1	B407078	LLG	10-Jul-14	EPA160.3	Н2
Total Metals by ICP								
Calcium	2650	100 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	3170	5.00 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010B	
Magnesium	488	100 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	516	100 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100 mg/kg	iry 100	B407150	JGS	16 <b>-Jui</b> -14	EPA6010 B	

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitshower shall be deemed warved unless made in writing and necked by Cardinal within thirth (30) days after competion 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, efflicates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims bessed upon any of the above stated resource or otherwise. Results relate only to the samples identified above. The reproduced except in full with written approve of Cardinal Laboratories.

Celey D. Kuna



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL I-1 H401976-05 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Lab	oratories					
Total Metals by ICP									
Zinc	7.75	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.838	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	17.0	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.105	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	3.52	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	1.12	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	2.31	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	23.5	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.105	mg/kg dry	485	B407175	JGS	17-Jul-14	EPA7471	Vı

Cardinal Laboratories \*=Accredited Analyte

REASE VOTE: Libbility and Demogris. Cardinel's liability and client's exclusive remedy for any deline rising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regispersor and any other cause whetapower 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 including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcloaries, effiliates or successors analogy out of or related to the performance of the services hereunder by Cardinel, regardless of whether such clients besed upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinel Laboratories.

Celey D. Kuna



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL I-2 H401976-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	332		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	232		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.79		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	272		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	95.3		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	10300	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	3340	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	734	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	904	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Lebility and Demages. Cardinal's liability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetherever 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 corresquential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties 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 approved of Cardinal 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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL I-2 H401976-06 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
Zinc	11.3	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	1.15	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	24.4	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.174	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	3.55	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	1.86	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	2.71	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	24.1	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.107	mg/kg dry	510	B407175	JGS	17-Jul-14	EPA7471	V1

Cardinal Laboratories \*=Accredited Analyte

FLEASE NOTE: Liability and Damages. Cardinal's leability and dient's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whetboower 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 limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall be deemed waived unless made in writing and received by Cardinal interceptions, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of the services harvender by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL I-3 H401976-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	176		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	129		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.88		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	144		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	84.6		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	555	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	3130	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	359	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	349	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

#### Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Libblity and Demages. Cardinal's lebblity and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and 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 ce liable for incidental or corresponditely demages, 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 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 Cardinal Laboratories.

Celey D. Kuna



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL I-3 H401976-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	oratories					
Total Metals by ICP										
Zinc	5.91		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	0.662		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	15.4		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	2.71		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	0.916		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	1.98		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	22.7		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.112	mg/kg dry	475	B407175	JGS	17-Jul-14	EPA7471	<b>V</b> 1

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Datrages. Cardina's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for registeror and any other cause whitspower shall be diseased walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pe liable for incidental or consequential damages, including, without limitation, business inhampations, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related above. The report shall not be reproduced accept in full with writinal approved of Cardinal Laboratories.



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL I-4 H401976-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	195		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	ΑP	03-Jul-14	4500-CI-B	
Conductivity*	204		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.85		0.100	pH Units	1	4070908	ΑP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	160		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP.	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	98.8		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	1240	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	3830	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	575	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	621	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

Cardinal Laboratories \*=Accredited Analyte

REAGE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remedy for any dain arising, whether besed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other causes 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, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients besed upon any of the above stated reasons or otherwise. Results related who the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keina



**Eddie Seay Consulting** 

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

Reported:

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL I-4 H401976-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	ratories					
Total Metals by ICP										
Zinc	8.34		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.25		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	21.7		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.180		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	4.54		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	1.38		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	3.56		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	29.4		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.104	mg/kg dry	515	B407175	JGS	17-Jul-14	EPA7471	VI

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Libbility and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regigence and any other cause whetsoever 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 libble for incidental or corresponding or corresponding to the control of the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall cardinal be for incidental or corresponding to the cardinal shall be deemed waived unless in the cardinal because of the services hereunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

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

Reported: 22-Jul-14 16:01

Project Number: C & C LANDFARM

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL F-1 H401976-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborat	ories					
Inorganic Compounds						***				
Alkalinity, Bicarbonate	97.6		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	ΑP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	153		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.70		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	ΑP	15-Jul-14	375.4	
Alkalinity, Total*	80.0		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	C <b>K</b>	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	22/1		101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### Green Analytical Laboratories

General Chemistry								
% Dry Solids	97.6	%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP								
Calcium	624	100 mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	2550	5.00 mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	345	100 mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	485	100 mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100 mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Job litty and Damages. Cardinal's lebility and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald 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 lieble for incidental or correspondite damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



**Eddie Seay Consulting** 

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

Reported:

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL F-1 H401976-09 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
Zinc	6.16	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.620	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	12.9	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	1.88	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	1.17	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	1.89	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	27.5	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0974	mg/kg dry	475	B407175	JGS	17-Jul-14	EPA7471	VI

Cardinal Laboratories \*=Accredited Analyte

\*\*REE NOTE: Jability and Demages. Cardina's lability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed washed unless made in writing and received by Cardinal within thathy (30) days after completion of the applicable service. In no event shall Cardinal pe liable for including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, efficience or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims bessed upon any of the above stated resource 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 D. Keine



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL F-2 H401976-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	78.1		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-C1-B	
Conductivity*	116		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.62		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	64.0		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02 <b>-Jul</b> -14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

#### Green Analytical Laboratories

General Chemistry									
% Dry Solids	99.3		%	1	B407078	LLG	10-Jul-14	EPA160.3	Н2
Total Metals by ICP									
Calcium	533	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	2360	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	337	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	437	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEKE VOTE: Liability and Damages. Cardinal's liability and clients's exclusive remedy for any data arising, whether based in contract or tort, shall be limited to the amount paid by client for energies. All claims, including those for negligence and any other cause whetherwise whether such claims, including those for negligence and any other cause whetherwise whether such claims, including, without limitation, business interruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is besed 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 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

22-Jul-14 16:01

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

> CELL F-2 H401976-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(	Green Anal	ytical Labo	oratories					
Total Metals by ICP										
Zinc	6.76		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	0.856		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	13.9		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.106		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	1.96		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	1.06		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	2.80		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	27.2		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	M5
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.104	mg/kg dry	515	B407175	JGS	17-Jul-14	EPA7471	V1

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and clients's exclusive remedy for any data arising, whether based in contract or tort, shall be limited to the amount celd by client for analyses. All clients, including those for regispence and any other cause whetsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & 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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL F-3 H401976-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	117		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-C1-B	
Conductivity*	128		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH*	7.76		0.100	pH Units	1	4070908	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	96.0		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP.	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070106	CK	02-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	89.4-	126	4070106	CK	02-Jul-14	8021B	

### Green Analytical Laboratories

General Chemistry									
% Dry Solids	99.5		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	402	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	2050	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	262	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	389	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTIE: Jidn'illy and Damages. Cardinal's lebility and clean's exclusive remedy for any data arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regigence and any other cause whatspewer 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 limited to the contract or tort, shall be limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall Cardinal be for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

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

Reported:

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

22-Jul-14 16:01

Fax To: (505) 392-6949

CELL F-3 H401976-11 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	ratories					
Total Metals by ICP									
Zinc	ND	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.684	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	9.79	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.101	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	1.60	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	0.733	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	1.37	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	17.1	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0975	mg/kg dry	485	B407175	JGS	17-Jul-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whetsoever 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 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 Cardinal Laboratories.

Celey D. Keine



**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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL F-4 H401976-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	215		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	ΑP	03-Jul-14	4500-C1-B	
Conductivity*	163		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH^	7.44		0.100	pH Units	1	4070909	ΑP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	176		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
ГРН 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	89.4-	126	4070806	MS	08-Jul-14	8021B	

### Green Analytical Laboratories

General Chemistry									
% Dry Solids	79.5		%	1	B407078	LLG	10-Jul-14	EPA160.3	Н2
Total Metals by ICP									
Calcium	1550	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	2180	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	395	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	403	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

### Cardinal Laboratories

\*=Accredited Analyte

\*\*REASE NOTE: Jubility and Demages. Cardinal's lebility and cleans, including those for registerice 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 including those for registerice 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 limited to the performance of the services have under by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Reported:

W. Illinois Project

Project Number: C & C LANDFARM

22-Jul-14 16:01

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

# CELL F-4 H401976-12 (Soil)

Analyte	Result	MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Lab	oratories					
Total Metals by ICP									
Zinc	6.24	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.828	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	14.5	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	1.68	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	0.893	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	2.00	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	24.0	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18 <b>-</b> Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.126	mg/kg dry	500	B407175	JGS	17-Jul-14	EPA7471	

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Liability and Damages. Cardinal's liability and clients's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsprew shall be deemed waived unless made in writing and necessed by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inclaimtal or correspondible 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 clients become upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeg & Kuna



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

Project Number: C & C LANDFARM

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL L-1 H401976-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	352		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	358		1.00	uS/cm	1	4071604	AP	17-Jul-14	120.1	
pH•	7.48		0.100	pH Units	1	4070909	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	288		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
ГРН 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP.	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
foluene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	89.4-	126	4070806	MS	08-Jul-14	8021B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	82.8		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP						1.50			
Calcium	12200	100 mg	g/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	5400	5.00 mg	g/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	1680	100 mg	g/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	1480	100 mg	g/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100 m	g/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Jability and Demages. Cardinal's liability and client's exclusive remedy for any claim arising, whether bosed 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 whitshooseer shall be diseased welved unless made in writing and received by Cardinal writin that'ny (30) days after competion of the applicable service. In no event shall be diseased welved unless made in writing and received 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 claims to besed upon any of the above stated resource or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with writines approved of Cardinal Laboratories.

Celey D. Keine



**Eddie Seay Consulting** 601 W. Illinois

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

Reported:

Hobbs NM, 88242

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL L-1 H401976-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	ratories					
Total Metals by ICP										
Zinc	17.6		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.75		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	53.2		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.227		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	4.63		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	2.88		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	3.58		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	79.3		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.115	mg/kg dry	475	B407175	JGS	17-Jul-14	EPA7471	

### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Jebility and Damages. Cardinal's lebility and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any offer 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 lebile for incidental or corresponding demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, efficiency and or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether auch 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. Keina



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL L-2 H401976-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	332		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	16.0		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	462		1.00	uS/cm	1	4071605	AP	17-Jul-14	120.1	1)
pH*	7.82		0.100	pH Units	1	4070909	AP	16-Jul-14	9045	
Sulfate	97.2		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	272		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by El	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	6
Total Xylenes*	ND		0.150	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	89.4-	126	4070806	MS	08-Jul-14	8021B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	70.4		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	98900	1000	mg/kg dry	1000	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	11200	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	8290	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	بيرسيد
Potassium	2470	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	188	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jubility and Demages. Cardinal's liability and clients's exclusive remedy for any doinn arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whitesower shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competion of the applicable service. In no event shall Cardinal pe 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 clients besend upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

22-Jul-14 16:01

Fax To: (505) 392-6949

CELL L-2 H401976-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	ratories					
Total Metals by ICP										
Zinc	30.6		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	5.91		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	305		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.375		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	8.60		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	4.51		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	6.62		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	120		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.135	mg/kg dry	475	B407175	JGS	17-Jul-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Damages. Cardinal's lebitity and client's exclusive remedy for any date arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. At claims, including those for regigence and any other cause whetevoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or corresponding days, 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 47

11



Eddie Seay Consulting

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

Reported:

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL L-3 H401976-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	332		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	64.0		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	795		1.00	uS/cm	1	4071605	AP	17-Jul-14	120.1	
pH*	7.23		0.100	pH Units	1	4070909	AP	16-Jul-14	9045	
Sulfate	135		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	272		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EPA	A Method 8021									
Benzene*	ND		0.050	mg/kg	50	4070806	MS	09-Jul-14	8021B	
Toluene*	ND		0.100	mg/kg	50	4070806	MS	09-Jul-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4070806	MS	09-Jul-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4070806	MS	09-Jul-14	8021B	
Total BTEX	ND		0.350	mg/kg	50	4070806	MS	09-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	89.4-	126	4070806	MS	09-Jul-14	8021B	

#### **Green Analytical Laboratories**

96.3	%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
11800	100 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
12200	5.00 mg/kg o	lry 100	B407150	JGS	16-Jul-14	EPA6010 B	
5230	100 mg/kg o	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
3420	100 mg/kg	iry 100	B407150	JGS	16-Jul-14	EPA6010 B	
ND	100 mg/kg	<b>ir</b> y 100	B407150	JGS	16-Jul-14	EPA6010 B	
	11800 12200 5230 3420	11800 100 mg/kg of 12200 5.00 mg/kg of 5230 100 mg/kg of 3420 100	11800     100 mg/kg dry     100       12200     5.00 mg/kg dry     100       5230     100 mg/kg dry     100       3420     100 mg/kg dry     100	11800 100 mg/kg dry 100 B407150 12200 5.00 mg/kg dry 100 B407150 5230 100 mg/kg dry 100 B407150 3420 100 mg/kg dry 100 B407150	11800     100 mg/kg dry     100 B407150     JGS       12200     5.00 mg/kg dry     100 B407150     JGS       5230     100 mg/kg dry     100 B407150     JGS       3420     100 mg/kg dry     100 B407150     JGS	11800 100 mg/kg dry 100 B407150 JGS 16-Jul-14 12200 5.00 mg/kg dry 100 B407150 JGS 16-Jul-14 5230 100 mg/kg dry 100 B407150 JGS 16-Jul-14 3420 100 mg/kg dry 100 B407150 JGS 16-Jul-14	11800 100 mg/kg dry 100 B407150 JGS 16-Jul-14 EPA6010 B 12200 5.00 mg/kg dry 100 B407150 JGS 16-Jul-14 EPA6010 B 5230 100 mg/kg dry 100 B407150 JGS 16-Jul-14 EPA6010 B 3420 100 mg/kg dry 100 B407150 JGS 16-Jul-14 EPA6010 B

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogras. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the amount paid by client for analyses. All claims, including those for registeror and any other cause whetsoever shall be deemed waived unless made in writing and received by Cardinal writin thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inclaims, 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 claims to besed upon any of the above stated measure or otherwise. Results relate only to the cardinal substance and the produced point of the control of cardinal Laboratories.

Celey D. Keina



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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL L-3 H401976-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		G	reen Anal	ytical Labo	oratories					
Total Metals by ICP										
Zinc	31.3		5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.64		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	65.6		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.434		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	11.8		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	3.10		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	6.02		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	51.7		0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.102	mg/kg dry	490	B407175	JGS	17-Jul-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

\*\*RESE VOTE: Jebility and Damages. Cardinel's liability and clients, including those for regigence and 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 coresquential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidicatives, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples individual dozon. The report shall not be reproduced except in full with writinal approved of Cardinal Laboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

22-Jul-14 16:01

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL L-4 H401976-16 (Soil)

Analyte	Result	MDL I	rting .imit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	rdina	l Laborate	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	195		20.0	mg/kg	1	4062305	AP	14-Jul-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Chloride	ND		16.0	mg/kg	4	4070206	AP	03-Jul-14	4500-Cl-B	
Conductivity*	323		1.00	uS/cm	1	4071605	AP	17-Jul-14	120.1	
pH*	7.62	0	.100	pH Units	1	4070909	AP	16-Jul-14	9045	
Sulfate	ND		40.0	mg/kg	4	4071406	AP	15-Jul-14	375.4	
Alkalinity, Total*	160		16.0	mg/kg	4	4062305	AP	14-Jul-14	310.1	
Organic Compounds										
TPH 418.1	ND		100	mg/kg	10	4070803	CK	22-Jul-14	418.1	
Volatile Organic Compounds by EP	A Method 8021									
Benzene*	ND	0	.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Toluene*	ND	0	.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Ethylbenzene*	ND	0	.050	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total Xylenes*	ND	0	.150	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Total BTEX	ND	0	.300	mg/kg	50	4070806	MS	08-Jul-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		10	4 %	89.4-	126	4070806	MS	08-Jul-14	8021B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	97.7		%	1	B407078	LLG	10-Jul-14	EPA160.3	H2
Total Metals by ICP									
Calcium	1680	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Iron	6630	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Magnesium	2340	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Potassium	1780	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Sodium	ND	100	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cerdinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whethousever shall be deemed welved unless made in writing and received by Cardhold within thirty (30) days after completion of the applicable service. In no event shall Cardhol be libble for inclaimtal 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 harvander by Cardhold, regardless of whether such clients based upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approve of Cardhold appropriate.

Celeg D. Keine



**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

22-Jul-14 16:01

Fax To: (505) 392-6949

# CELL L-4 H401976-16 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
Zinc	21.9	5.00	mg/kg dry	100	B407150	JGS	16-Jul-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	1.52	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Barium	32.5	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Cadmium	0.252	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Chromium	4.68	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Copper	3.02	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Lead	3.61	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Manganese	73.7	0.500	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B407159	JGS	18-Jul-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.101	mg/kg dry	495	B407175	JGS	17-Jul-14	EPA7471	

#### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Demagus. Cardinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inclaintal or corresponded demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients beared upon any of the above stated measures or otherwise. Results related above. The report shall not be reproduced accept in full with writinal approved of Cardinal Laboreturies.

Celey D. Keine



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

22-Jul-14 16:01

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 4062305 - General Prep - Wet Chem										
Blank (4062305-BLK1)				Prepared &	Analyzed:	23-Jun-14				
Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	4.00	4.00	mg/kg							
LCS (4062305-BS1)				Prepared &	Analyzed:	23-Jun-14				
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	126	5.00	mg/kg				80-120			
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120			
LCS Dup (4062305-BSD1)				Prepared &	Analyzed:	23-Jun-14				
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	126	5.00	mg/kg				80-120	0.00	20	
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120	0.00	20	
Batch 4070104 - 1:4 DI Water										
Blank (4070104-BLK1)				Prepared &	Analyzed:	01-Jul-14				
Chloride	ND	16.0	mg/kg							
LCS (4070104-BS1)				Prepared &	Analyzed:	01-Jul-14				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4070104-BSD1)				Prepared &	Analyzed:	01-Jul-14				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 4070206 - 1:4 DI Water										
Blank (4070206-BLK1)				Prepared &	Analyzed:	02-Jul-14				
Chloride	ND	16.0	mg/kg							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Demagas. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount policy client for analyses. All claims, including those for negligence and any other cause whetboower shall be disensed washed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pe liabile for incidental or corresponding diseases, without limitation, business informations, loss of use, or loss of profits incurred by client, its subcladeries, efflicates or successors arising out of or violated to the performance of the services hereunder by Cardinal, regardless of whether such client is bread upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writinal approve of Cardinal Laboratures.

Celey D. Keine



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 22-Jul-14 16:01

Hobbs NM, 88242

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

Fax To: (505) 392-6949

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

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
	Acous	Lutt	Oillis	Tetel	Kesuit	AIREC	Lilling	- KFD	Littit	INOIES
Batch 4070206 - 1:4 DI Water										
LCS (4070206-BS1)				Prepared &	Analyzed:	02-Jul-14				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4070206-BSD1)				Prepared &	Analyzed:	02-Jul-14				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4070907 - 1:1 DI										
LCS (4070907-BS1)				Prepared: 0	9-Jul-14 Aı	nalyzed: 16	5-Jul-14			
pH	7.14		pH Units	7.00		102	90-110			
Duplicate (4070907-DUP1)	Sour	ce: H401964	-01	Prepared: 0	9-Jul-14 Aı	nalyzed: 16	5-Jul-14			
pH	<b>7</b> .50	0.100	pH Units		8.48			12.3	20	
Batch 4070908 - General Prep - Wet Chem										
LCS (4070908-BS1)				Prepared: 0	9-Jul-14 Ar	nalyzed: 16	5-Jul-14			
pH	7.14		pH Units	7.00		102	90-110			
Duplicate (4070908-DUP1)	Sour	ce: H401976	-02	Prepared: 0	9-Jul-14 Ar	nalyzed: 16	5-Jul-14			
pH	7.59	0.100	pH Units		7.54			0.661	20	
Batch 4070909 - NO PREP										
Batch 4070909 - NO PREP LCS (4070909-BS1)		···································		Prepared: 0	9-Jul-14 Ar	nalyzed: 16	5-Jul-14			

Cardinal Laboratories \*=Accredited Analyte

RESE NOTE: Liability and Damages. Cardinal's lebility and cliam's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by cliant for analyses. All claims, including those for registerice and any other oxuse whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal ce lable for incidental or corresponditely demandes, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cliant, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whather such claims is besend 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



Eddie Seay Consulting 601 W. Illinois

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

Reported:

Hobbs NM, 88242

Project Number: C & C LANDFARM Project Manager: Eddie Seay Fax To: (505) 392-6949

22-Jul-14 16:01

### Inorganic Compounds - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4070909 - NO PREP							-			
Duplicate (4070909-DUP1)	Sou	rce: H401976	-12	Prepared: (	)9-Jul-14 A	nalyzed: 16	-Jul-14			
рН	7.58	0.100	pH Units		7.44			1.86	20	
Batch 4071406 - General Prep - Wet Chem										
Blank (4071406-BLK1)				Prepared: 1	14-Jul-14 A	nałyzed: 15	-Jul-14			
Sulfate	ND	10.0	mg/kg							
LCS (4071406-BS1)				Prepared: 1	14-Jul-14 A	nalyzed: 15	-Jul-14			
Sulfate	16.0	10.0	mg/kg	20.0		80.0	80-120			
LCS Dup (4071406-BSD1)				Prepared: 1	14-Jul-14 A	nalyzed: 15	-Jul-14			
Sulfate	17.0	10.0	mg/kg	20.0		84.8	80-120	5.77	20	
Batch 4071603 - General Prep - Wet Chem										
LCS (4071603-BS1)				Prepared: 1	16-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	484		uS/cm	500		96.8	80-120			
Duplicate (4071603-DUP1)	Sou	rce: H401964	-01	Prepared: 1	16-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	149000	0.250	uS/cm		150000			0.671	20	
Batch 4071604 - General Prep - Wet Chem										
LCS (4071604-BS1)				Prepared: 1	16-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	494		uS/cm	500		98.8	80-120			

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jobility and Demages. Cardinal's leability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the performance of the services hereunder by Cardinal, regardless of whether such claims is besed 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

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

Reported:

601 W. Illinois

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

22-Jul-14 16:01

Hobbs NM, 88242

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 4071604 - General Prep - Wet Chem										
Duplicate (4071604-DUP1)	Sour	ce: H401976-	04	Prepared: 1	6-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	341	1.00	uS/cm		339			0.588	20	
Batch 4071605 - General Prep - Wet Chem										
LCS (4071605-BS1)				Prepared: 1	6-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	498		uS/cm	500		99.6	80-120			
Duplicate (4071605-DUP1)	Sour	ce: H401976-	14	Prepared: 1	6-Jul-14 A	nalyzed: 17	-Jul-14			
Conductivity	464	1.00	uS/cm		462			0.432	20	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Demages. Cardinal's liability and client's evolusive remarky for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for registerice and any other cause whatscever 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 limited by client, 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 hareunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



**Eddie Seay Consulting** 

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

Reported: 22-Jul-14 16:01

601 W. Illinois Hobbs NM, 88242

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

Fax To: (505) 392-6949

### **Organic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Апатус	Result	Limit	Units	Level	Result	70KEC	Limis	KFD	Limit	Notes
Batch 4070803 - Solvent Extraction										
Blank (4070803-BLK1)				Prepared &	Analyzed:	22-Jul-14				
TPH 418.1	ND	100	mg/kg							
LCS (4070803-BS1)				Prepared &	Analyzed:	22-Jul-14				
TPH 418.1	5130	100	mg/kg	5000		103	80-120			
LCS Dup (4070803-BSD1)				Prepared &	Analyzed:	22-Jul-14				
TPH 418.1	5310	100	mg/kg	5000		106	80-120	3.41	20	

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Damages. Cardina's liability and client's exclusive remarkly for any cleim arising, whether based in contract or bort, shall be limited to the amount cald by client for analyses. All cleims, including those for regigence and any other cause whetevoever shall be deemed waived unless made in writing and eccived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inclantal or correspondint demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties 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. Keina

0/DEC



### Analytical Results For:

Eddie Seay Consulting 601 W. Illinois

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

Reported:

רומם

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

22-Jul-14 16:01

Fax To: (505) 392-6949

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4070106 - Volatiles										
Blank (4070106-BLK1)				Prepared: (	)1-Jul-14 A	nalyzed: 02	-Jul-14			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	89.4-126			
LCS (4070106-BS1)				Prepared: (	)1-Jul-14 A	nalyzed: 02	-Jul-14			
Benzene	1.77	0.050	mg/kg	2.00		88.6	76.4-135			
Toluene	1.87	0.050	mg/kg	2.00		93.6	80.2-135			
Ethylbenzene	1.64	0.050	mg/kg	2.00		82.2	78.5-133			
Total Xylenes	5.08	0.150	mg/kg	6.00		84.7	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.4	89.4-126			
LCS Dup (4070106-BSD1)				Prepared: (	)1-Jul-14 A	nalyzed: 02	-Jul-14			
Benzene	1.64	0.050	mg/kg	2.00		82.1	76.4-135	7.54	16.4	
Toluene	1.71	0.050	mg/kg	2.00		85.3	80.2-135	9.27	16.6	
Ethylbenzene	1.50	0.050	mg/kg	2.00		75.1	78.5-133	8.96	16.1	
Total Xylenes	4.65	0.150	mg/kg	6.00		77.5	80.1-135	8.78	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	89.4-126			
Batch 4070806 - Volatiles										
Blank (4070806-BLK1)				Prepared &	Analyzed:	08 <b>-</b> Jul-14				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

#### Cardinal Laboratories \*=Accredited Analyte

mg/kg

0.0500

104

89.4-126

0.0521

\*\*REF NOTE: Liability and Damages. Cardinal's liability and client's exclusive "armody for any claim arising, whether based in contract or tort, shall be limited to the amount poid by client for analysis. All claims, including those for negligence and any other cause whotspower shall be deemed warked 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 correspounded demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidenties, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients sobsequence upon any of the above stated research or offerwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Liberaturies.

Celeg D. Keine

Surrogate: 4-Bromofluorobenzene (PID)



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 22-Jul-14 16:01

Hobbs NM, 88242

Project Number: C & C LANDFARM

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4070806 - Volatiles										
LCS (4070806-BS1)				Prepared &	Analyzed:	08-Jul-14				
Benzene	1.85	0.050	mg/kg	2.00		92.6	76.4-135			
Toluene	1.94	0.050	mg/kg	2.00		97.2	80.2-135			
Ethylbenzene	1.72	0.050	mg/kg	2.00		86.2	78.5-133			
Total Xylenes	5.35	0.150	mg/kg	6.00		89.2	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	89.4-126			
LCS Dup (4070806-BSD1)				Prepared &	Analyzed:	08-Jul-14				
Benzene	1.99	0.050	mg/kg	2.00		99.4	76.4-135	7.12	16.4	
Toluene	2.10	0.050	mg/kg	2.00		105	80.2-135	7.57	16.6	
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	78.5-133	8.12	16.1	
Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	80.1-135	7.60	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	89.4-126			

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jebility and Damages. Cardinal's lebility and client's exclusive remedy for any cleim arising, whether based in contract or tort, shell be limited to the amount peld by client for analyses. All cleims, including those for registerce 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 limited or corresponding to the performance of the services hereunder by Cardinal, regardless of whether such cleims bessed 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. Kune

%REC



### Analytical Results For:

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

Reported:

601 W. Illinois Project Numb Hobbs NM, 88242 Project Manag

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

22-Jul-14 16:01

Fax To: (505) 392-6949

# Total Metals by ICP - Quality Control

### **Green Analytical Laboratories**

į.		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B407150 - EPA 3050										
Blank (B407150-BLK1)				Prepared:	15-Jul-14 A	nalyzed: 16	-Jul-14			
Magnesium	ND	1.00	mg/kg dry							
Potassium	ND	1.00	mg/kg dry							
Calcium	ND	1.00	mg/kg dry							
Iron	0.069	0.050	mg/kg dry							В
Zinc	ND	0.050	mg/kg dry							
Sodium	ND	1.00	mg/kg dry							
LCS (B407150-BS1)				Prepared: 1	15-Jul-14 A	nalyzed: 16	-Jul-14			
Magnesium	19.6	1.00	mg/kg dry	20.0		98.2	85-115		-	
Iron	3.75	0.050	mg/kg dry	4.00		93.7	85-115			
Sodium	6.76	1.00	mg/kg dry	6.48		104	85-115			
Zinc	1.85	0.050	mg/kg dry	2.00		92.7	85-115			
Calcium	4.00	1.00	mg/kg dry	4.00		100	85-115			
Potassium	8.35	1.00	mg/kg dry	8.00		104	85-115			
LCS Dup (B407150-BSD1)				Prepared: 1	15-Jul-14 A	nalyzed: 16	-Jul-14			
Potassium	7.96	1.00	mg/kg dry	8.00		99.5	85-115	4.74	20	
Calcium	3.98	1.00	mg/kg dry	4.00		99.4	85-115	0.577	20	
Iron	3.88	0.050	mg/kg dry	4.00		96.9	85-115	3.34	20	
Magnesium	19.8	1.00	mg/kg dry	20.0		99.1	85-115	0.916	20	
Sodium	6.77	1.00	mg/kg dry	6.48		105	85-115	0.273	20	
Zinc	1.87	0.050	mg/kg dry	2.00		93.3	85-115	0.659	20	

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Jeblity and Demages. Cardinal's lebility 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 cleims, including those for regigence 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 libite for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

22-Jul-14 16:01

Fax To: (505) 392-6949

### **Total Metals by ICPMS - Quality Control**

### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
latch B407159 - EPA 3050M										
llank (B407159-BLK1)				Prepared: 1	6-Jul-14 Aı	nalyzed: 18	Jul-14			
Silver	ND	0.0001	mg/kg dry							
copper	ND	0.0001	mg/kg dry							
ead	ND	0.0005	mg/kg dry							
fanganese	ND	0.0005	mg/kg dry							
rsenic	ND	0.0005	mg/kg dry							
elenium	ND	0.0010	mg/kg dry							
hromium	ND	0.0010	mg/kg dry							
admium	ND	0.0001	mg/kg dry							
arium	ND	0.0005	mg/kg dry							
CS (B407159-BS1)				Prepared: 1	6-Jul-14 A	nalyzed: 18	-Jul-14			
admium	0.0471	0.0001	mg/kg dry	0.0500		94.2	85-115			
arium	0.0476	0.0005	mg/kg dry	0.0500		95.1	85-115			
hromium	0.0488	0.0010	mg/kg dry	0.0500		97.5	85-115			
opper	0.0498	0.0001	mg/kg dry	0.0500		99.6	85-115			
fanganese	0.0463	0.0005	mg/kg dry	0.0500		92.5	85-115			
rsenic	0.0467	0.0005	mg/kg dry	0.0500		93.4	85-115			
ilver	0.0470	0.0001	mg/kg dry	0.0500		94.0	85-115			
elenium	0.226	0.0010	mg/kg dry	0.250		90.4	85-115			
ead	0.0477	0.0005	mg/kg dry	0.0500		95.4	85-115			
CS Dup (B407159-BSD1)				Prepared: 1	6-Jul-14 A	nalyzed: 18	-Jul-14			
ilver	0.0453	0.0001	mg/kg dry	0.0500		90.7	85-115	3.58	20	
elenium	0.221	0.0010	mg/kg dry	0.250		88.3	85-115	2.39	20	
hromium	0.0468	0.0010	mg/kg dry	0.0500		93.6	85-115	4.07	20	
admium	0.0454	0.0001	mg/kg dry	0.0500		90.8	85-115	3.70	20	
rsenic	0.0460	0.0005	mg/kg dry	0.0500		92.0	85-115	1.54	20	
anganese	0.0444	0.0005	mg/kg dry	0.0500		88.8	85-115	4.04	20	
ead	0.0453	0.0005	mg/kg dry	0.0500		90.5	85-115	5.21	20	
opper	0.0477	0.0001	mg/kg dry	0.0500		95.5	85-115	4.22	20	
arium	0.0452	0.0005	mg/kg dry	0.0500		90.3	85-115	5.21	20	

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jubility and Demogres. Condinate liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount said by client for analyses. All cleims, including those for negligence and any other cause whetshower shall be deemed well-well unless made in writing and received by Cardinal writin, that the same of the applicable service. In no event shall Cardinal are liabile for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcloderies, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, negardless of whether such client is based upon any of the above stated resource or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine

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 Project Manager: Eddie Seay

22-Jul-14 16:01

Fax To: (505) 392-6949

# **Total Mercury by CVAA - Quality Control**

# **Green Analytical Laboratories**

	Reporting		Spike	Source		%REC		RPD	
Analyte Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			············						
Prepared & Analyzed: 17-Jul-14									
ND	0.0002	mg/kg wet							
			Prepared &	Analyzed:	17-Jul-14				
0.0019	0.0002	mg/kg wet	0.00200		97.4	85-115			
Prepared & Analyzed: 17-Jul-14									
0.0019	0.0002	mg/kg wet	0.00200		96.8	85-115	0.515	20	
	ND 0.0019	ND 0.0002 0.0019 0.0002	ND	Result   Limit   Units   Level	Result Limit Units Level Result  Prepared & Analyzed:  ND 0.0002 mg/kg wet  Prepared & Analyzed:  0.0019 0.0002 mg/kg wet 0.00200  Prepared & Analyzed:	Prepared & Analyzed: 17-Jul-14	Result   Limit   Units   Level   Result   %REC   Limits	Result   Limit   Units   Level   Result   %REC   Limits   RPD	Result   Limit   Units   Level   Result   %REC   Limits   RPD   Limit

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All cleims, including those for negligence and any other causes whatsoever shall be deemed welved unless mede 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 corresponding damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or auccessors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whather such clients bessed upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. The reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Kuna



### **Notes and Definitions**

V1	Continuing calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
H2	Sample analysis performed past hold time specified by the method.
81	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 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: Lability and Damages. Cardinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thairty (30) days after completion of the applicable service. In no event shall Cardinal be limited for inclaims, without limited to the performance of the services hereunder by Cardinal, negardless of whether such cleims based upon any of the above stated measure 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 D. Keena

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

430 9:10 7 130 9:45 7 130 10:15 7 37.EX 630 7:20 630 8:35 38:0705 3 Address: (D) 10. Illing State: DA Zip: 92.42 Phone #: 2 - 22.56 B11.1 TO Attn: ELic CITY: LL ЯЭНТО Company: ICE / COOF P.O. # VCID/BYSE **SEHTO** arnage City: Monument State: NH Zip: 81245 Phone #: 575. 349.7108 Fax#: 576.373.6949 Project \*: C. C. Project Owner: J. Contact **MASTEWATER** C C \* CONTAINERS (9012) B R. 37, Company Name: C+C Londform Project Manager: J. Corper Sample 1.D. - ' da 3333 Project Name: C&C Address: Box 55 Project Location: mo mo FOR USE ONLY Lab I.D.

Sample Condition
Cool Intact
Tes Yes
No No 28° +91 Time Sampler - UPS - Bus - Other: Delivered By: (Circle One)

CHECKED BY:

20.6.2.3103 A

SEALOY @ Paro . no

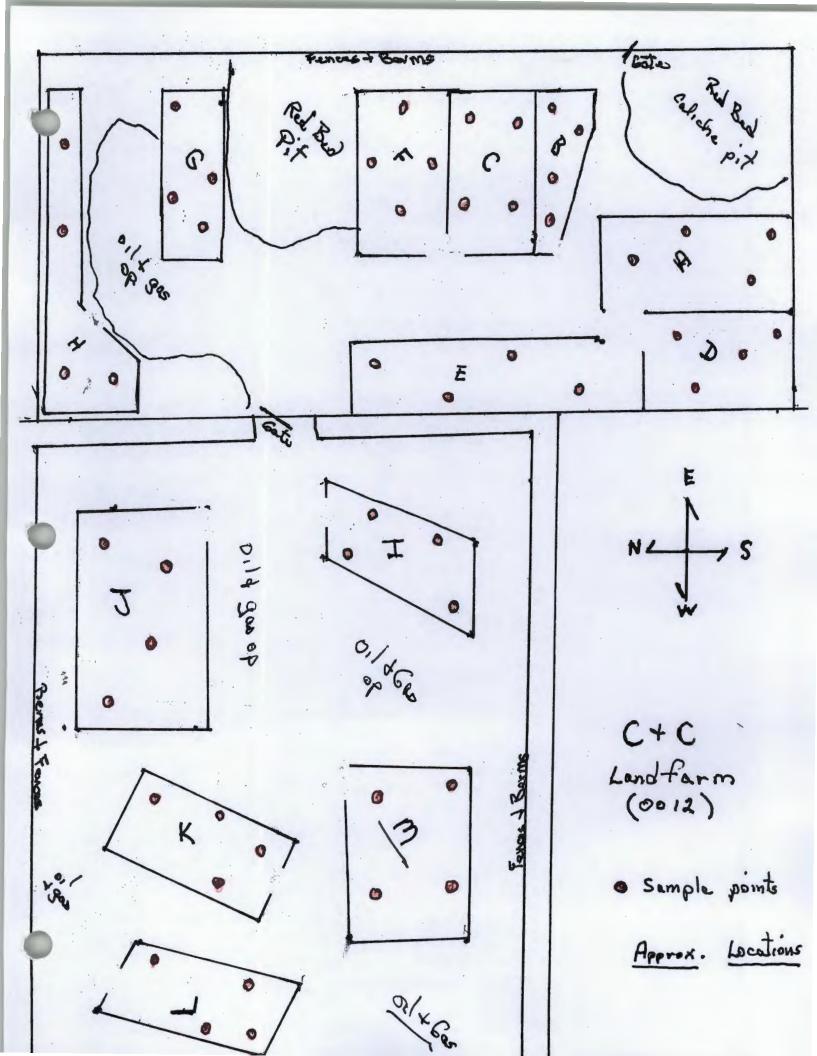
† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	Relinquished By:	200	yees. All derns including those for negligence and ar- nce. In no event shall Cardinal be liable for incidental lase of successors arising out of or related to the performance.	NEAST HOTE: Labely and Company Cardina's labely and d	عدارا	28 TI	13 Ces L	(a)	ا لادنا ا	10 000	9 (a) F	Lab I.D. Sam	FOR LAB USE ONLY	74	Project Location: 5 3	4	1	80) L. 69 E :# Blow	€.	٠,۱	4	Company Name: /+C
2.8° +54	Date:	Time:	cause wheteoever shall questal damages, incl. of services harsunder	and sections of the section of the s	3	۲ ،	-	1	5	3		Sample I.D.	_	Sugar (	T. Zo D. 37,	F (NM. 0017	Project Owner:	8 Fax #: 392.	State: NA 2	Andrew Control of the	Coop. Y	Count Cours
E.	Raceived By		be deemed waived unta ding without limitation, b by Cardinal, reportises of		7 0	2	Y Y	7	R	2	1	(G) OR (C)OM	P.	544	Wax un	100	4	1_	Zip: 🛇			
Cool Integr	ad By		ed unless made in unling and re- tation, business interruptions, loss enfless of whither such cleam is b	Whether had no contract	< <	\ \ \ \	<	2	٤.	,د	<	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MÁTRIX	C.	T.	לי. -	بعالهما	444	29888			
	CHECKED BY	it of	of use, of comments of the	or by shall be Imake to the	درد	_	<	2	7		U C	OTHER: ACID/BASE: ICE / COOL OTHER:	PRESERV.	Fax #: 39	Phone #: 392 ·	State: NY Zip: 84242	City: Hados	Address: (20)	ATTI: Edie	Company:	P.O. #:	77/9
O.E.	, c	$\times$	2 4 2		120	C/80	1/20	10/46	180	DEM	30	DATE	SAMPLING	_	2 · 2	5 CO		بح	6V	4		7
2	0	Fax Result: REMARKS:	r completion of the applicable clark, the subsedience, second of otherwise.	W Se chart or	2:40	9:00	3: (0	1:35	80:308	23.62	46:17	TIME	**	69.69	2236	42		H	Ě			
9	0. 0.	<b>'</b>		֓֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֡֓֓֓֡֡֝֡֓֡֓֡֡֡֡֡֓֓֡֡֡֡֓֡֡֡֡֡֡		١,	-	K		2	\ \ \			920	4	3/	(pa	2)			4	
0	•	3			- <u>(</u>	2	<u> </u>	<b>K</b>	<u>ر</u>	7	\ \	TPH C	41	<u>q.</u>	<u> </u>					$\chi$	$\dashv$	
8050	i e	- 191			· (	r	C		ر ر	K	٠ <	Ancons		می ا	_	M		NA.	_	<u>( )</u>	$\xi$	
. v.+		à				Ł,	<	×	V	K	ر									202	بر. ۸	ÀN.
7	1	Add'l Fax *	3									wacc M	3	sa	. (	<u>.</u> 9		È.	9	6		LYSIS
	t		"									<b>"</b> 5e	,	<u>Cu</u>	1	Fe	,	W.	٢.	Zn.,		_
												" Hg	<u>`</u> (	נינ	- Z	9)					_	REQUEST
					_	-			-												4	┛
							_		-	-											4	
					-	ļ_	L														4	
										1	1										- 1	1



# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director Oil Conservation Division



April 9, 2014

Mr. Jimmy Cooper C & C Landfarm Inc. P.O. Box 36 Monument, New Mexico 88265

RE: 2013 Bi-Annual Sampling and Five Year Monitoring Report Review

C & C Landfarm Inc. Permit NM1-012

Location: Unit B of Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of C & C Landfarm Inc.'s (C & C) 2013 Bi-Annual Sampling and Five Year Monitoring Report. The vadose zone results were not compared to the background results in order to determine if a release had occurred and if the required follow-up actions are required to be completed. The five year vadose sampling event was not implemented on all of the active landfarm cells and additional laboratory analysis was performed that was not required by regulation. Also, the incorrect test method for TPH was utilized and demonstrated in regards to vadose zone monitoring.

In accordance with Paragraph (1) of 19.15.36.15.E NMAC, "The operator shall monitor the vadose zone beneath the treatment zone in each landfarm cell." Pursuant to Paragraph (3) of 19.15.36.15.E NMAC, "The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The five year sampling was only performed on the following landfarm cell(s): Cell J sampled Dec. 30, 2013. Also, the laboratory results submitted in the monitoring report demonstrated that analysis was performed for all the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. As underlined in the above reference of Paragraph (1) of 19.15.36.15.E NMAC, the "methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC" are those identified in Subsection F of 19.15.36.15 NMAC: such as "determined by *EPA SW-846 methods 6010B or 6020* or other EPA method approved by the division..." Please perform the five year monitoring program on the remaining active landfarm cells in order the complete the five year monitoring and to demonstrate compliance of Paragraphs (1) and (3) of 19.15.36.15.E NMAC.

In regards to utilizing the proper TPH test method for vadose zone monitoring, in accordance with Paragraph (2) of 19.15.36.15.E NMAC the operator shall analyze the samples from the vadose zone "using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred."

Mr. Cooper C&C Landfarms Inc. Permit NM-1-012 April 9, 2014 Page 2 of 2

The "methods specified below for TPH, BTEX and chlorides" are those identified in Subsection F of 19.15.36.15 NMAC: such as "TPH, as determined by *EPA method 418.1* or other EPA method approved by the division..." Pursuant to the Transitional Provisions of Subsection A of 19.15.36.20.NMAC, "Existing surface waste management facilities shall comply with the operational, waste acceptance and closure requirements provided in 19.15.36 NMAC, except as otherwise specifically provided in the applicable permit or order, or in a specific waiver, exception or agreement that the division has granted in writing to the particular surface waste management facility." The most common vadose zone monitoring (commonly referred to, but incorrectly as "Treatment Zone Monitoring" within existing landfarm permits) condition in an existing landfarm permit is as follows: "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually." The permit condition only identified the constituent and does not specify the test method. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. Please submit all future vadose zone sampling results demonstrating TPH by EPA Method 418.1.

The 2013 Bi-Annual Sampling and Five Year Monitoring Report only included the laboratory results from the sampling event. The requirements of Subsection E of 19.15.36.15 NMAC are clear that the operator "shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The rest of the vadose zone assessment was not completed to determine if a release has occurred and/or if the required additional testing and a response action plan of Paragraph (5) of 19.15.36.15.E NMAC are required. Please complete the required assessment.

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

Please complete the required actions of 19.15.36.15.E NMAC, provide OCD with the additional five year sampling results, provide OCD the sampling results compared to background or PQL for release determination, and submit the sampling results demonstrating TPH by EPA Method 418.1 within 120 days of receipt of this letter. Also, please provide an updated facility map that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or <a href="mailto:brad.a.jones@state.nm.us">brad.a.jones@state.nm.us</a>.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

# C & C LANDFARM NM-01-0012

# **BI-ANNUAL SAMPLING**

**JANUARY 2014** 

PEGELLID OCD

2011 FEB - 4 9 3: 12

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 J

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, and continue with closing the facility as approved.

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

Thanks,

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

Hobbs, NM 88242 575-392-2236

seay04@leaco.net

cc: C & C Landfarm



January 10, 2014

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 12/31/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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 Seay** 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

Sampling Type:

01/10/2014

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

MONUMENT, NM SECT 3

Sample Received By:

Jodi Henson

### Sample ID: CELL A - T (H303156-01)

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	01/06/2014	ND	416	104	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	892	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	101	% 65.2-14	10					1000	
Surrogate: 1-Chlorooctadecane	141	% 63.6-15	4						

### Sample ID: CELL B - T (H303156-02)

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	01/06/2014	ND	416	104	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	742	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	75.5	% 65.2-14	0				7 - 14-111		
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remedy for any claim orising, whether pased in contract or tort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence and any other case whatsower shall be deemed walved unless made in writing and received by Certainst within thirty (30) days after completion of the applicable are viewed. In no event shall Certainst be liable for incidental or consequential demages, including, without limitation, sushess interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliation or successors arising out of or related to the performance of the services networker. Provided above, this subsidiaries, affiliation or successors arising out of or related to the performance of the services networker. Provided above, this report shall not be reproduced except in full with written approved of Certainal Laboratories.

Celey D. Keens



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

01/10/2014

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 SECT 3

### Sample ID: CELL C - T (H303156-03)

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	01/06/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: me					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	11.9	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	123	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

### Sample ID: CELL D - T (H303156-04)

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	01/06/2014	ND	416	104	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	124	% 65.2-14	0		1 11/			11	
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damagus. 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 whetesoever 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 demages, including, without limitation, business interruptions, loss of use, or loss of use of

Celey D. Keena



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

04/40/2044

Sampling Type:

Soil

Reported:

01/10/2014 C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Name:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL E - T (H303156-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: me					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	122	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	i4						

### Sample ID: CELL F - T (H303156-06)

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	01/06/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: me					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	10.3	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	125	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	127	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagois. Cardina'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 analysis. All claims, including those for negligance and any other cause whitesoever shall be deemed waited. Inless made in writing and received by Cardinal within thirty (30) days after completton of the applicable service. In no event shall Cardinal be liable for incidental or consequential damagos, holiciding, without limitation, business interruptions, loss of use, or loss of softs. In our cardinal part of the services are not the performance of the services are not to the performanc

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

01/10/2014

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 SECT 3

### Sample ID: CELL G - T (H303156-07)

Chloride, SM4500CI-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	01/06/2014	ND	416	104	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	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	122	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	125	% 63.6-15	4						

### Sample ID: CELL H - T (H303156-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP				<del></del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/06/2014	ND	416	104	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	1139	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1129	63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardina's liability and client's exclusive remedy for any claim arising, whether posed in contract or tort, shell be finited to the amount peid by client for analyses. All claims, including those for negligence and any other cause whatsoever shell be deemed walved unless made in writing and received by Cardinal within thirty (3) days after completion of the applicable service. In no event shell Cardinal be liable for incidental or corresquential damagas, including, without limitation, pushess interruptions, loss of use, or loss of use, or loss of profits incurred by cleint, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nersunder 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. Keena



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

01/10/2014

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

d Bv: Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL I - T (H303156-09)

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	01/06/2014	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	77.8	% 63.6-15	4						

### Sample ID: CELL J - T (H303156-10)

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	01/06/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms			iu		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	120 %	65.2-14	0		. ,				
Surrogate: 1-Chlorooctadecane	122 9	63.6-15	4						

## Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cardina'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 analysiss. All claims, including those for negligence and any other cause wholescever shall be deemed weived unless made in writing and received by Cardinal within thirty (3) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresquential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliations or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

Sampling Type:

01/10/2014

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

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

Project Number:

NONE GIVEN

Project Location: MONUMENT, NM SECT 3

### Sample ID: CELL K - T (H303156-11)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/06/2014	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	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	18.4	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	1129	% 65.2-14	0	370 37					
Surrogate: 1-Chlorooctadecane	1179	63,6-15	4						

### Sample ID: CELL L - T (H303156-12)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/06/2014	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	75.7	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	111 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1199	63,6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina'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 claims, including those for negligence and any other cause whatsoever shall be deemed watered 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 clernt, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reports hall 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

Received:

12/31/2013

Sampling Date:

12/29/2013

Reported:

01/10/2014

Sampling Type:

Soil

Sampling Condition:

Project Name: Project Number: C & C LANDFARM - TREATMENT ZONE NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL M - T (H303156-13)

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	01/06/2014	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					
<b>Analyt</b> e	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	40.1	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	121	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	126	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Libbility and Demagas. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be smilled 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 demagas, 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 remunder 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.

Celen D. Keena Celey D. Keene, Lab Director/Quality Manager



### **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 Demagos. Cardinal's liability and cleriks 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 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 demagos, 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 nereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			CHECKED BY:	Sample Condition Cool Intact	CO Samp	3600		(Circle One) Bus - Other:	Delivered By: (Circle One) Sampler - UPS - Bus - Other
		;		•	Ved By:	6	Time:	 	Relinquished By
	**	REMARKS	MARCI	J. W.	M		05:4 seur		_
□ No Add'i Fax #:	□ Yes	Fax Result:		>	<b>7</b>		72(3)	<del>ار</del>	Committee of the commit
		d remons or otherwise	Son any of the signe	such delm is bes	Voca SV:	Cerdinal, 190	nos of services hersunder b	his out of or related to the perform	The constant of the constant o
•	a applicable		y Cardhai within 30 or loss of profits inc	de in writing and received a interruptions, loss or us		1	na whalloover miai damages	All chims including those for negligence and any other cau in no event shall Cardinal be fable for incidental or consecut	enalyses. All claims including the service. In no overticated Caudin
	10	1 12:35 I	12 (Z)   V	n combract or but when		1011		G 14	7
	<u>د</u>		/ /2/20		<u> </u>	E	7	Call H	0
	ر. د	~	7			2	4	Call #	8
	<u>ر</u> ر		92/21		۷.	<u> </u>	-1	Ca00 6	7
	くしく	•	シールショ		J	1/1	7	- م حود	2
	<b>ر</b>		1 12/29			<u>ر</u>	7	٦ کلون	<b>የ</b>
	くく	$\overline{}$	25/2		<	<u>د</u>	, 1		
	٧ ٧	9 0:80	12/2			₹.	H	- ٢ ا	3
	くく	99:40	12/2		<u></u>	<u>_</u>	-	للا ملاه	Ы
	<u> </u>	9,12	7C TRI 0		۲,	2	/	Coll A	
		E TIME		OIL SLUE OTHE					75150SKH
	7. S		COOL		UNDV	AB OR	j.b.	Sample I.D.	Lab I.D.
	rp, H				VATER	R (6)ON	;	• •	· · ·
	<u>)</u>	SAMPLING	PRESERV: SAM	MATRIX	*	Ρ̈́	_		FOR LAB UBE ONLY
	8			2ma Fax #:	Maria 2	**	To	h	Sampler Name:
	ole		Phone #:	Ph	و ريا	3	+ 2.5X	Manus	Project Location:
	_ ?)		te: Zip:	09(2) State:	ر ٠ اا	OM S	orm (A	S Comet	Project Name: C
		·	2	CITY:	Carry	Ч	Project Owner: T. Cu	7	Project #: C
			Address	λd	45	- 69	Fax#	2236	Phone #: Qu
			1	Attn:	P635	Zip: <	State: NW		City: Heldo
			Company:	င္ပ			くとうか	3	Address: (SD)
			P.O.#	P.C	6			Edding S	Project Manager:
ANALYSIS REQUEST					The second	answitten.	سي العم	Edd (a)	Company Name:
				·		76	X (575) 393-24	(676) 393-2326 FAX (575) 393-2476	(1
						345	LATTE NM 85	of Reat Medand	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) t

Page 10 of 11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

inject Manager: Inject Manager: Inject Manager: Inject Manager: Inject Name: Carrolect Name: Carrolect Location:  Por Le Description: For Le Description: Inject Name: Carrolect Name: Carrolect Name: Carrolect Location:	76) 393-2326 FAX Edd (a) SS Edd (		Company: Attn: Address: State: Zi Phone #: PRESERY	(8012)	<b>X</b>	ANALYSIS REQUEST	
Lab I.D. H303156	Sample I.D.	(G) CABOOR (C)OMP.  CONTAINERS  GROUNDWATER  WASTEWATER	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	Chbry		
132=	C.00 K - T	7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		200		
LEASE NOTE: Labily and naives. At chiefs including a chiefs including arrival in the chief card filled to the chiefs of automaton ariting a chief of the chief of	Seriagos. Carchina's listality and client those for negligenous and any other can the last listality for industrial or conseque out of or tribled to by portnomence of	6 5 2 2 2 2	ther based in contend or left, shall be limited to the amount paid by the clear for the amount paid by the clear for the amount paid by shall be limited to the amount paid by the clear for the age amount in writing and recolorable by Cerefinal widths 30 days after completion of the age amount by writing and recolorable by clear, be subdictionable, the subdictionable by th	voir pid by the cleat for the days after completion of the applicable mad by clear, its subsidiarias, table! respons or otherwise.			
Reinquished By	odd of acutated to the performance of	Time: Received By	Menson	FF 1	□ Yee □ No Add	Add'l Phone #: Add'l Fax #	
Delivered By: (Circle One) Sampler - UPS - Bus - Other † Cardinal cannot accept:	: (Circle One) - Bus - Other: cannot accept verbal cha	San S.L.C. B Cox B.L.C. B Cox B.C.C. B B.C.C. B B.C. B.C.	Sample Condition CHECKED BY: Cool Infact (1) fee in fee No No No 1576) 393-2326				<u>.</u>
† Cardinal	cannot accept verbal cha	Cardinal cannot accept verbal changes. Please fax written changes to (675) 395-2326	# (678) 395 2326 # 501		,		

20/2



January 21, 2014

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 12/31/13 9:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

01/21/2014

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 SECT 3

### Sample ID: CELL A - V (H303155-01)

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	01/02/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/02/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/02/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/02/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116%	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	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: 1-Chlorooctane	105 9	6 65.2-14	)			1.000			
Surrogate: 1-Chlorooctadecane	103 %	6 63.6-15	<b>1</b>						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and clerit's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clerit for analyses. All claims, including those for negligence and any other cause whistower shall be deemed where Junies made in withing 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, historially, without limitation, business interruptions, loss of use, or loss of profits incurred by clerit, its substitiatives, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated resource or otherwise. Results related with to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

Soil

01/21/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

C & C LANDFARM - VADOSE ZONE

### Sample ID: CELL B - V (H303155-02)

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	01/02/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/02/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/02/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/02/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	1079	6 89.4-120	5		, ,				
Chioride, 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	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: I-Chlorooctane	90.99	% 65.2-140	)						
Surrogate: 1-Chlorooctadecane	88.5 9	% 63.6-154	<b>4</b>						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Kuna



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

01/21/2014

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Sample Received By:

Joo

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL C - V (H303155-03)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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	<16.0	16.0	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: 1-Chlorooctane	91.79	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.49	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and clients 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 wholesoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential demages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clernt, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nemerated 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 upon atomics.

Celey D. Keine



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

Fax To: (505) 392-6949

Received: Reported: 12/31/2013

01/21/2014

Project Name:

C & C LANDFARM - VADOSE ZONE

Project Number: MONUMENT, NM SECT 3

Project Location:

NONE GIVEN

Sampling Date:

12/30/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Jodi Henson Sample Received By:

# Sample ID: CELL D - V (H303155-04)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	16						
Chioride, 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	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0					-	
Surrogate: 1-Chlorooctadecane	89.9	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demagos. Cardina's liability and client's exclusive remedy for any cleim arising, whether based 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 whistower shell be deemed washed unless mode in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal be liable for incidental or consequential demagos, historia, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substituteries, affiliates or successors arising out of or related to the performance of the services menunder by Cardinal, regardless of whether such claims becaused upon any of the above stated resource or otherwise. Results related into the services in fail with written approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

01/21/2014

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 SECT 3

### Sample ID: CELL E - V (H303155-05)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	<16.0	16.0	01/06/2014	ND	416	104	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	12/31/2013	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	12/31/2013	ND	195	97.3	200	1.55	
									<del>-</del>
Surrogate: 1-Chlorooctane	111 9	65.2-14	0						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and clern's exclusive remedy for any cleim arising, whether besed in contract or tort, shall be limited to the amount peld by clent for analyses. All cleims, including those for negligence and 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 corresponding days of the contract of the applicable service. In no event shall Cardinal be liable for incidental or corresponding days affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

01/21/2014

Soil

Project Name: Project Number: C & C LANDFARM - VADOSE ZONE NONE GIVEN

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

Project Location:

MONUMENT, NM SECT 3

Sample ID: CELL F - V (H303155-06)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/03/2014	ND	1.84	92.0	2.00	2.57	
<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
<0.300	0.300	01/03/2014	ND					
103 9	% 89. <b>4</b> -12	6						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	01/06/2014	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/02/2014	ND	188	94.0	200	3.12	
				44-		200	4.55	
<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
<10.0			ND	195	97.3	200	1.55	
	Result <0.050 <0.050 <0.050 <0.150 <0.300  1039 mg/ Result <16.0 mg/ Result	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  103 % 89.4-12 mg/kg  Result Reporting Limit <16.0 16.0 mg/kg  Result Reporting Limit <10.0 10.0	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           < 0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount baid by cleint for analyses. All claims, including those for registerice 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 corresponding without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries, affiliates or successors arising out of or related to the performance of the services revenuer 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. Keens



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

(505) 392-6949 Fax To:

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

01/21/2014

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 SECT 3

### Sample ID: CELL G - V (H303155-07)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	< 0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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	<16.0	16.0	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: 1-Chlorooctane	1199	6 65.2-14	0						11.
Surrogate: 1-Chlorooctadecane	1139	6 63.6-15	4						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's liability and clean's exclusive remedy for any claim arising, whether posed in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligance and any other cases whistoever shall be deemed walved unless made in writing and received by Cardinal within thairty (30) days after completton 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 or ordinal to a position or successors analysis of use and or related to the performance of the services necessary or otherwise. Results relate only to the samples identified above. This reportshell not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

01/21/2014

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE NONE GIVEN

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

Project Number: Project Location:

MONUMENT, NM SECT 3

# Sample ID: CELL H - V (H303155-08)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.49	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	<16.0	16.0	01/06/2014	ND	416	104	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	01/02/2014	ND	188	94.0	200	3.12	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	195	97.3	200	1.55	
Surrogate: 1-Chlorooctane	103 9	65.2-14	0					33' 37	
Surrogate: 1-Chlorooctadecane	98.89	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demoges. Cordinal'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 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 corsequential demages, including, without limitation, business interruptions, loss of use, or loss of shall be liable to incurred by clerk, its subsideries, 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 approval of Cardinal Laboratories.

Celey D. Keens



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

Fax To: (505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

Soil

01/21/2014

Sampling Condition:

Cool & Intact

Project Name:

C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MONUMENT, NM SECT 3

Sample ID: CELL I - V (H303155-09)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.4 <del>9</del>	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 89.4-12	6						100
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	01/06/2014	ND	416	104	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	01/01/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/01/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	104 %	6 65.2-14	0						1.00
Surrogate: 1-Chlorooctadecane	109%	6 63.6-15	4						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinaris liability and client's exclusive remedy for any claim arising, whether pased in contract or tart, shall be limited to the amount peld by client for analyses. All claims, including those for negligence and any other cause whitesoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services reneunder by Cardinal, regardless of whether such claim is besed 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

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

Soil

01/21/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number: C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL K - V (H303155-10)

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	01/03/2014	ND	1.84	92.0	2.00	2.57	
Toluene*	<0.050	0.050	01/03/2014	ND	1.87	93.4	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.87	93.6	2.00	2.37	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.4 <del>9</del>	91.6	6.00	2.48	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 89.4-12	5			1.000			
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	01/06/2014	ND	416	104	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	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	108 %	6 65.2-14	0						- 40.00
Surrogate: 1-Chlorooctadecane	104 %	63.6-15-	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and clerit's exclusive remedy for any cleim arising, whether posed in contract or tort, shall be limited to the amount paid by clein for analyses. All claims, including those for negligence and any other cause whistoners shall be deemed walved. Inless mode 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 use of us

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

01/21/2014

Sampling Condition:

Soil

Project Name: Project Number: C & C LANDFARM - VADOSE ZONE NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL L - V (H303155-11)

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	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	89.4-12	6		3416.41				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	<16.0	16.0	01/06/2014	ND	416	104	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	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0	, 11 1457					4000
Surrogate: 1-Chlorooctadecane	82.5	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cardina's liability and clenn's exclusive remedy for any claim arising, whether seed in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed watved 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 corresponded demogas, including, without limitation, pushess infarruptions, loss of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereundar by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens



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

Fax To:

(505) 392-6949

Received:

12/31/2013

Sampling Date:

12/30/2013

Reported:

Sampling Type:

Soil

01/21/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

C & C LANDFARM - VADOSE ZONE

### Sample ID: CELL M - V (H303155-12)

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	01/03/2014	ND	1.88	93.9	2.00	2.36	
Toluene*	<0.050	0.050	01/03/2014	ND	1.86	92.8	2.00	1.31	
Ethylbenzene*	<0.050	0.050	01/03/2014	ND	1.82	91.1	2.00	0.763	
Total Xylenes*	<0.150	0.150	01/03/2014	ND	5.40	90.0	6.00	0.486	
Total BTEX	<0.300	0.300	01/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 89.4-12	16	4114					
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	01/06/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: me					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/02/2014	ND	186	92.8	200	2.69	
DRO >C10-C28	<10.0	10.0	01/02/2014	ND	206	103	200	2.71	
Surrogate: 1-Chlorooctane	97.79	65.2-14	10						
Surrogate: 1-Chlorooctadecane	97.3 9	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Ubbility and Damages. Cordinate liability and client's exclusive remedy for any claim arising, whether peed 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 of corresponding changes, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clerk, its aubsidiaries, 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 approval of Cardinal Laboratories.

Celey D. Kuna



### **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 Damagas. Cardina's liability and cleants exclusive remody for any cleim arising, whether pased in contract or tort, shell be limited to the amount paid by clent for analyses. All cleims, including those for negligence and any other cause whistoever shell be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal be liable for incidental or correspondingly, without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries, afflictes or aucressors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether such cleim is bested upon any of the above stated resource 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 D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		•			THE SKIED BY:	OH CH	Sample Condition	\	29		Sircle One)	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	
								Served by.	4	Time:		reinqueited by.	
				REMARKS:	MB	M	Ç.			Time 9:30		LILLY W	n
	Add'I Phone #:	Yes UNO	F	Fax Result:	3		·	Negatived By:		18/2	0	Relinquianed by:	A 7
				eons of otherwise	d upon any of the above stated re-	is presed upon an	her such daim i	Sales of what	-	of services harsunder by C	of or related to the performance	This or successors arising out of or re-	k s
		•	applicable	d by the client for the completion of the app	ect or but, shall be limited to the smount peid by the oftent for the and received by Carolinal within 30 days after completion of the ag	or tort, shall be received by Car	h witing	mad walved unless mad	Ì	- 2 1	to neg	PLEASE NOTE: Liability and Damages. Co unalyses. All claims including those for neg	
						_							_
		ن	ر ا ر	12:00	(2/30/2:00				<u>ح</u>		Coll H -	9	
		< <	ال	30/1:25	12/30	Č	J		くっ		N - H 17	80	
		/ /	ハク	3010:55	12/30	IJ	)		<u>ر</u>	<	- 9 20 ·	7 6	
		1	くノ	13010:25	12130				<u>ر</u>		100 17 -	60	
		) V	くノ	1309:50			~		V 7	<u> </u>	ووم	S	r –
		١٧١	4	130 9:30	12/30		_		<u>C</u>	1	E U	<del>ب</del> ۲	
		00	く	308:55	12/50	1		,	V (	<	-2 //e	3	_
		K	<u> </u>	308:30	12130		_		<u>ر</u>	<	10	2	
		/ ノ	1	01.8	12/308.1	2	2			<	H-	1 0	Т
				TIME	ОТН	ACII	OIL	WAS				H303/55	
		<u>C</u>	<u>B</u> _		ER:	ER: D/BA	DGE	STEV	_				
		74) B	<del>1</del> 7			SE:	<u></u>	DWA	OR (	D	Sample I.D.	Lab I.D.	
		Α.	<u>-X</u>						C)OM				
		<u>J</u>		NG	ERV. SAMPLING	PRESERV	NIX I		P.	•		FOR LAB USE ONLY	_
: -		S S			1	Fax#:	Somo	Š	adase		dain Son	Sampler Name: E	Too
		) ) (2		-		Phone #:	•		500 3	3	Monumont	Project Location:	70
		<u>(</u>	_		Zip:	State:	צי	01.0	P	P	C bustown	15	10
						City:	100	المهما	:: []	Project Owner:		Project #: C+C	10
					Address On A	Address	فسنيد	19	6949	Fax	136	Phone #: 2.2236	70
						Attn:	2	21p: 86342		State: N.W.		City: Habbas	0
					Υ:	Company:				1015 C	1 H	Address: \ab\	<b>D</b>
						P.O. #:				60	iV)	Project Manager:	10
REQUEST	ANALYSIS F		,		17/5 桂 // 星			ONSWERNO	SVO	) • ******	ح معنهاح	Company Name:	0
		· · ·					,		176	(675) 393-24	(575) 393-2326 FAX (575) 393-2476	(6)	ı
			:			•			R940	NIN NIN 8	101 East Marland, Hobbs, NM 88240	6	

† Cardinal cannot accept verbal changes. Please fax written changes to (57



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	76				
Company Name: Edd Co San Co	Sult of A			ANALYSIS REQUEST	
المحدد الم	-	P.O. #:			
Address: LOI W Thunds	C	Company:			
ald a	24611	Attn:			
* 2.2236 F	69	Address: Q			
e+c Project	J. (B)	City:			
ume: Ct C Landforma (	7 01 . 812	State: Zip:	<u>S</u>		-
m Monument NM (5	7	Phone #:	) <u>[</u>		
١) مولا عالمه	Ы	Fax #:	2°		:
•	MATRIX	PRESERV. SAMPLING			
	TER		±X #		
Lab I.D. Sample I.D.	UNDW/ TEWAT	/BASE: COOL	577 TP		
H303155	#CO GRO	OTHI	TIME		
10 Colk K-V	2	1 05 CO 1	いるくくし		
11 Cobs 1 - V		12/30 16	はいいくく		
17 Cast M. V	0	V /2/50 /	1:30 2 2		
PLEASE NOTE: Listing and Jurriagin. Commits already and death sections in more remainded an entire of wir, shall be initial to the smooth paid by the clarify it to entire the initial part of the clarify and the section of the secti	en renody or any seem areng weenen besed in ooitstock that, was be include to the security by the clears for the seaver shall be dessent obselve these made in widing and received by Centries (Withh 30 days after completion of the app segue, including without imitation, business intemptions, bas of use, or loss of porties incurred by dens, in substitutions,	tor, shall be limited to the amount paid by calved by Cardinal within 30 days after oor s of use, or lose of paritis incurred by dient,	the client for the applicable probabilities, in authorities, in authorities, in		
Refinquished By: Date / 2/	Received By:	<u> </u>	<b>?₹</b>		
SOUTH TIME	and a		-	o Add'l Fax #	
Rollinguished By:  Date:	Received By:		. •		•
Delivered By: (Circle One)	Sample Condition Cool Intact	CHECKED BY:			
Sampler - UPS - Bus - Other:	No. I Yes		, u		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2328

0922



January 24, 2014

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 12/31/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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: 24-Jan-14 15:50

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

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL J-1	H303157-01	Soil	30-Dec-13 14:10	31-Dec-13 09:30
CELL J-2	H303157-02	Soil	30-Dec-13 14:35	31-Dec-13 09:30
CELL J-3	H303157-03	Soil	30-Dec-13 15:05	31-Dec-13 09:30
CELL J-4	H303157-04	Soil	30-Dec-13 15:40	31-Dec-13 09:30

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubbility and Demogras. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for registeror and only other cause whotscover 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 corresponding controlling, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiltates or successors arising out of or related to the performance of the services harvunder 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 unboratories.

Celey D. Kuna



**Eddie Seay Consulting** Hobbs NM, 88242

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

Reported:

601 W. Illinois

Project Number: C & C LANDFARM

24-Jan-14 15:50

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

# CELL J-1 H303157-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4012209	AP	23-Jan-14	4500-Cl-B	
pH*	7.96		0.100	pH Units	1	4011303	AP	16-Jan-14	150.1	
Phenois	ND		2.5 1	mg/kg dry wt.	1	4012408	CK	22-Jan-14	EPA9065	GAL
Sulfate	ND		100	mg/kg	10	4012405	AP	24-Jan-14	375.4	
Radionuclides										SUB-RS
Radium-226	$0.5\pm0.1$			pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Radium-228	ND		0.50	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Total Radium	$0.5\pm0.1$			pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	ND		10.0	mg/kg	1	3123103	ms	03-Jan-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3123103	ms	03-Jan-14	8015B	
Surrogate: 1-Chlorooctane			<i>83.7</i> %	65.2-1	40	3123103	ms	03-Jan-14	8015B	
Surrogate: 1-Chlorooctadecane			80.0 %	63.6-1	54	3123103	ms	03-Jan-14	8015B	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
Surrogate: Tetrachloro-meta-xylene			63.8 %	35-14	10	4012410	CK	08-Jan-14	8082	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: ...(solity and Demages. Cardinal's lebitity and client's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount said by client for analyses. All claims, including those for regigence 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 demages, 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 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.

Celay & Keina

Celey D. Keene, Lab Director/Quality Manager



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

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-1 H303157-01 (Soil)

Reporting

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 826	0B								
Vinyl chloride*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Methylene chloride*	ND		0.250	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Chloroform*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Surrogate: Dibromofluoromethane			100 %	70-	130	4010606	MS	06-Jan-14	8260	
Surrogate: Toluene-d8			92.8 %	70-	130	4010606	MS	06-Jan-14	8260	
Surrogate: 4-Bromofluorobenzene			97.5 %	70-	130	4010606	MS	06-Jan-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
l-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	82 <b>7</b> 0C	

# Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Damagus. Cardina's liability and client's exclusive remady for any cleim arising, whether based in contract or tort, shall be limited to the amount celd by client for analyses. All claims, including those for regispence and any other cause whatsoever shall be deemed warved unless made in writing and necelved by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential demages, including, without limitation, business information, business information, including, without limitation, business information so of use, or loss of profits incurred by client, its subsidicates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whather such clients besent upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writing approved of Cardinal Laborativities.

Celey D. Keine

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
Project Manager: Eddie Seay

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-1 H303157-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Laborat	ories					
Semivolatile Organic Compound	s by GCMS					A				
Acenaphthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Fluoranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[b]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Surrogate: Nitrobenzene-d5			71.5 %	16.1-	91.8	4010602	MS	08-Jan-14	8270C	
Surrogate: 2-Fluorobiphenyl			69.4 %	27.2-	92.9	4010602	MS	08-Jan-14	8270C	
Surrogate: Terphenyl-dl4			83.0 %	21.3-	96.1	4010602	MS	08-Jan-14	8270C	

#### Green Analytical Laboratories

General Chemistry								
Cyanide, Total	ND	1.00 mg	g/kg dry 100	B401044	KLJ	07-Jan-14	EPA9012 B	
% Dry Solids	98.4		<b>%</b> 1	B401041	LLG	07-Jan-14	EPA160.3	H2
Soluble (DI Water Extraction)								
Fluoride	18.0	4.00 mg	g/kg dry 20	B401043	ABP	07-Jan-14	4500-F- C	
Nitrate/Nitrite as N	1.34	0.205 mg	g/kg dry 5	B401073	KLJ	09-Jan-14	EPA353.2	
Nitrite as N	ND	0.100 mg	g/kg dry 5	B401084	KLJ	10-Jan-14	EPA353.2	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any cleim anising, whether based in contract or tort, shall be limited to the amount seld by client for analyses. All claims, including those for regispence and any other cause whotsoever 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 corresponding 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL J - 1 H303157-01 (Soil)

Analyte	Result	MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICP									
Copper	5.71	2.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Iron	3360	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Zinc	21.6	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	3.84	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Barium	174	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Cadmium	0.340	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Chromium	4.32	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Lead	0.894	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Manganese	33.7	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Uranium	0.978	0.100	mg/kg dry	1000	B401054	Admin	08-Jan-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.101	mg/kg dry	495	B401097	JGS	13-Jan-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jability and Damagus. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analysis. All claims, including those for negligence and any other causes whatscever shall be deemed warked unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or correspounded damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidieries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients besided upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproducted except in full with written approved of Cardinal Laboratories.

Celey D. Keena



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 24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-2 H303157-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		,	Cardina	al Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4012209	AP	23-Jan-14	4500-C1-B	
pH*	8.06		0.100	pH Units	1	4011303	AP	16-Jan-14	150.1	
Phenois	ND		2.5	mg/kg dry wt.	1	4012408	CK	22-Jan-14	EPA9065	GA
Sulfate	ND		100	mg/kg	10	4012405	AP	24-Jan-14	375.4	
Radionuclides										SUB-RS
Radium-226	0.6 ± 0.1			pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Radium-228	ND		0.40	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Total Radium	$0.6 \pm 0.1$			pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	ND		10.0	mg/kg	1	3123103	ms	03-Jan-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3123103	ms	03-Jan-14	8015B	
Surrogate: 1-Chlorooctane			90.0 %	65.2-1	140	3123103	ms	03-Jan-14	8015B	
Surrogate: 1-Chlorooctadecane			<i>85.0 %</i>	63.6-1	154	3123103	ms	03-Jan-14	8015B	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1248	ND		10.0	ug∕kg	1	4012410	CK	08-Jan-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
Surrogate: Tetrachloro-meta-xylene			64.5 %	35-1-	40	4012410	CK	08-Jan-14	8082	

# Cardinal Laboratories

\*=Accredited Analyte

\*\*REASE NOTE: ...Isbility and Demogris. Condinates liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount said by client for analyses. All claims, including those for negligence and any other cause whetsoever shall be deemed without unless made in writing and received by Condinal within thirty (30) days after completion of the applicable service. In no event shall Candhal are liabile for incidental or correspondingles, including, without limitation, bushess infarmuptions, loss of use, or loss of profits incurred by client, its subclaimings, expenses on a subclaiming and analysis of the services hereunder by Candhal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results nelate only to the samples obsertified above. This report shall not be reproduced except in full with written approved of Candhal Laboratories.

Celey D. Keina

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 Project Manager: Eddie Seay

24-Jan-14 15:50

Fax To: (505) 392-6949

CELL J-2 H303157-02 (Soil)

1,1-Dichloroethene*   ND	Analyzed	Method Note
Vinyl chloride*   ND		
1,1-Dichloroethene* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,2-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,2-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 1,1-2-Dibromoethane* ND 0.0500 mg/kg 50 4010606 MS 06 Total Xylenes* ND 0.0500 mg/kg 50 4010606 MS 06 NS 0-Xylene* ND 0.0500 mg/kg 50 4010606 MS 06 NS 0-Xylene* ND 0.0500 mg/kg 50 4010606 MS 06 NS 0-Xylene* ND 0.0500 mg/kg 50 4010606 MS 06 NS 06 NS 0-Xylene* ND 0.0500 mg/kg 50 4010606 MS 06 NS 0		
Methylene chloride*         ND         0.250         mg/kg         50         4010606         MS         06           1,1-Dichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Chloroform*         ND         0.100         mg/kg         50         4010606         MS         06           Carbon tetrachloride*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,1-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Benzene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Tetrachloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS <td< th=""><th>06-Jan-14</th><th>8260</th></td<>	06-Jan-14	8260
1,1-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 Chloroform* ND 0.100 mg/kg 50 4010606 MS 06 Carbon tetrachloride* ND 0.0500 mg/kg 50 4010606 MS 06 1,1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 Benzene* ND 0.0500 mg/kg 50 4010606 MS 06 1,2-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 Trichloroethene* ND 0.0500 mg/kg 50 4010606 MS 06 Tetrachloroethene* ND 0.0500 mg/kg 50 4010606 MS 06 Tetrachloroethene* ND 0.0500 mg/kg 50 4010606 MS 06 Tetrachloroethane* ND 0.0500 mg/kg 50 4010606 MS 06 The composition of t	06-Jan-14	8260
Chloroform* ND 0.100 mg/kg 50 4010606 MS 06  Carbon tetrachloride* ND 0.0500 mg/kg 50 4010606 MS 06  1,1,1-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06  1,2-Dichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06  Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06  Trichloroethene* ND 0.0500 mg/kg 50 4010606 MS 06  Tetrachloroethene* ND 0.0500 mg/kg 50 4010606 MS 06  Tetrachloroethene* ND 0.0500 mg/kg 50 4010606 MS 06  Tetrachloroethene* ND 0.0500 mg/kg 50 4010606 MS 06  1,1,2-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06  1,1,2-Trichloroethane* ND 0.0500 mg/kg 50 4010606 MS 06  1,2-Dibromoethane* ND 0.0500 mg/kg 50 4010606 MS 06  Ethylbenzene* ND 0.0500 mg/kg 50 4010606 MS 06  Total Xylenes* ND 0.0500 mg/kg 50 4010606 MS 06  Total Xylenes* ND 0.0500 mg/kg 50 4010606 MS 06  Total Xylenes* ND 0.0500 mg/kg 50 4010606 MS 06  Total Xylenes* ND 0.0500 mg/kg 50 4010606 MS 06  Naphthalene* ND 0.0500 mg/kg 50 4010606 MS 06	06-Jan-14	8260
Carbon tetrachloride*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,1-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Benzene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Toluene*         ND         0.0500         mg/kg         50         4010606         MS         06           Tetrachloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06	06-Jan-14	8260
1,1,1-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Benzene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Trichloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           Toluene*         ND         0.0500         mg/kg         50         4010606         MS         06           Tetrachloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.0500         mg/kg         50         4010606         MS         06 </td <td>06-Jan-14</td> <td>8260</td>	06-Jan-14	8260
Benzene*   ND   0.0500   mg/kg   50   4010606   MS   06     1,2-Dichloroethane*   ND   0.0500   mg/kg   50   4010606   MS   06     Trichloroethene*   ND   0.0500   mg/kg   50   4010606   MS   06     Toluene*   ND   0.0500   mg/kg   50   4010606   MS   06     Tetrachloroethene*   ND   0.0500   mg/kg   50   4010606   MS   06     Tetrachloroethene*   ND   0.0500   mg/kg   50   4010606   MS   06     1,1,2-Trichloroethane*   ND   0.0500   mg/kg   50   4010606   MS   06     1,2-Dibromoethane*   ND   0.0500   mg/kg   50   4010606   MS   06     Ethylbenzene*   ND   0.0500   mg/kg   50   4010606   MS   06     m-p Xylenes*   ND   0.100   mg/kg   50   4010606   MS   06     Total Xylenes*   ND   0.0500   mg/kg   50   4010606   MS   06     Total Xylenes*   ND   0.150   mg/kg   50   4010606   MS   06     Total Xylenes*   ND   0.0500   mg/kg   50   4010606   MS   06     Total Xylenes*   ND   0.0500   mg/kg   50   4010606   MS   06     Naphthalene*   ND   0.0500   mg/kg   50   4010606   MS   06     Surrogate: Dibromofluoromethane   104 %   70.130   4010606   MS   06     Surrogate: 4-Bromofluorobenzene   98.5 %   70.130   4010606   MS   06     Surrogate: 4-Bromofluorobenzene   98.5 %   70.130   4010606   MS   06     Semivolatile Organic Compounds by GCMS	06-J <b>an</b> -14	8260
1,2-Dichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Trichloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           Toluene*         ND         0.0500         mg/kg         50         4010606         MS         06           Tetrachloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06           m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06 <tr< td=""><td>06-Jan-14</td><td>8260</td></tr<>	06-Jan-14	8260
Trichloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           Toluene*         ND         0.0500         mg/kg         50         4010606         MS         06           Tetrachloroethene*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06           m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06	06-Jan-14	8260
Toluene*	06-Jan-14	8260
Tetrachloroethene*	06-Jan-14	8260
1,1,2-Trichloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06           m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.0500         mg/kg         50         4010606         MS         06           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06           Surr	06-Jan-14	8260
1,2-Dibromoethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06           m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Ethylbenzene*         ND         0.0500         mg/kg         50         4010606         MS         06-           m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06-           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06-           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06-           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06-           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06-           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06-           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06-           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
m-p Xylenes*         ND         0.100         mg/kg         50         4010606         MS         06-           o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06-           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06-           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06-           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06-           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06-           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06-           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06-           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
o-Xylene*         ND         0.0500         mg/kg         50         4010606         MS         06           Total Xylenes*         ND         0.150         mg/kg         50         4010606         MS         06           1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Total Xylenes*         ND         0.150 mg/kg         50 4010606         MS 06           1,1,2,2-Tetrachloroethane*         ND         0.0500 mg/kg         50 4010606         MS 06           Naphthalene*         ND         0.0500 mg/kg         50 4010606         MS 06           Surrogate: Dibromofluoromethane         104 % 70-130         4010606         MS 06           Surrogate: Toluene-d8         92.2 % 70-130         4010606         MS 06           Surrogate: 4-Bromofluorobenzene         98.5 % 70-130         4010606         MS 06           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
1,1,2,2-Tetrachloroethane*         ND         0.0500         mg/kg         50         4010606         MS         06           Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Naphthalene*         ND         0.0500         mg/kg         50         4010606         MS         06-           Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06-           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06-           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06-           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Surrogate: Dibromofluoromethane         104 %         70-130         4010606         MS         06-           Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06-           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06-           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Surrogate: Toluene-d8         92.2 %         70-130         4010606         MS         06-           Surrogate: 4-Bromofluorobenzene         98.5 %         70-130         4010606         MS         06-           Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 4010606 MS 06- Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
Semivolatile Organic Compounds by GCMS	06-Jan-14	8260
	06-Jan-14	8260
Naphthalene         ND         0.040         mg/kg         40         4010602         MS         08-	08-Jan-14	8270C
<b>2-Methylnaphthalene</b> ND <b>0.040</b> mg/kg 40 4010602 MS 08-	08-Jan-14	8270C
1-Methylnaphthalene ND 0.040 mg/kg 40 4010602 MS 08-	08-Jan-14	8270C
Acen a phthylene ND 0.040 mg/kg 40 4010602 MS 08-	08-Jan-14	8270C

#### Cardinal Laboratories

\*=Accredited Analyte

REASE VOTE: Jability and Demogras. Cardinal's leichity and client's exclusive remody for any cleam arising, whether based in contract or turt, shall be limited to the amount cold by client for analyses. All cleims, including those for regispence 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 correspondently demogras, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, 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 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

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-2 H303157-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Laborat	ories					
Semivolatile Organic Compound	ls by GCMS									
cenaphthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
luorene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
'hen anthrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Inthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
luoranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
yrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
enzo[a]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
hrysene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
enzo[b]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
enzo[k]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
enzo[a]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
ndeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
ibenz[a,h]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
enzo[g,h,i]perylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
urrogate: Nitrobenzene-d5			68.8 %	16.1-	91.8	4010602	MS	08-Jan-14	8270C	
urrogate: 2-Fluorobiphenyl			68.8 %	27.2-	92.9	4010602	MS	08-Jan-14	8270C	
urrogate: Terphenyl-dl4			90.8 %	21.3-	96.1	4010602	MS	08-Jan-14	8270C	

# **Green Analytical Laboratories**

General Chemistry									
Cyanide, Total	ND	1.00 n	ng/kg dry	100	B401044	KLJ	07-Jan-14	EPA9012 B	
% Dry Solids	96.3		%	1	B401041	LLG	07-Jan-14	EPA160.3	H2
Soluble (DI Water Extraction)									
Fluoride	15.4	1.60 n	ng/kg dry	8	B401043	ABP	07-Jan-14	4500-F- C	
Nitrate/Nitrite as N	0.706	0.205 n	ng/kg dry	5	B401073	KLJ	09-Jan-14	EPA353.2	
Nitrite as N	ND	0.100 n	ng/kg dry	5	B401084	KLJ	10-Jan-14	EPA353.2	

# Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Demogras. Cardina's liability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for registeros and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal writin thirty (33) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding demogras, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or aucressors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whather such clients besend upon any of the above stated reserves or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in limit with writing approved of Cardinal Laboratories.

Celey & Keena



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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL J-2 H303157-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Gı	reen Analy	ytical Labo	ratories					
Total Metals by ICP						_				
Copper	5.42		2.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Iron	3770		5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Zinc	22.1		5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Total Metals by ICPMS										
Arsenic	3.40		0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Barium	145		0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Cadmium	0.326		0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Chromium	4.53		1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Lead	1.03		0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Manganese	36.6		0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Uranium	0.936		0.100	mg/kg dry	1000	B401054	Admin	08-Jan-14	6020 A	
Total Mercury by CVAA										
Mercury	ND		0.107	mg/kg dry	515	B401097	JGS	13-Jan-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount civil by cleim for analyses. All claims, including those for negligenous and any other cause whetscever shall be deemed washed 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 corresponded demages, including, without limitation, business informations, loss of use, or loss of profits incurred by client, its subsidiaries, efflictes or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced accept in full with writine approved of Cardinal Laboratories.

Celeg & Keine



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

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-3 H303157-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4012209	AP	23-Jan-14	4500-Cl-B	
pH*	7.63		0.100	pH Units	1	4011303	AP	16-Jan-14	150.1	
Phenols	ND		2.5 1	mg/kg dry wt.	1	4012408	CK	22-Jan-14	EPA9065	GAL
Sulfate	ND		40.0	mg/kg	4	4012405	AP	24-Jan-14	375.4	
Radionuclides										SUB-RS
Radium-226	ND		0.30	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Radium-228	ND		0.40	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Total Radium	ND		0.40	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	ND		10.0	mg/kg	1	3123103	ms	01-Jan-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3123103	ms	01-Jan-14	8015B	
Surrogate: 1-Chlorooctane			100 %	65.2-	140	3123103	ms	01-Jan-14	8015B	
Surrogate: 1-Chlorooctadecane			105 %	63.6-	154	3123103	ms	01-Jan-14	8015B	
PCBs BY GC/ECD										SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
Surrogate: Tetrachloro-meta-xylene			70.5 %	35-1	40	4012410	CK	08-Jan-14	8082	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Dameges. Cardinal's lability and client's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount seld by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wolved unless made in writing and received by Cardinal writinh thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the amount seld by client, it is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

24-Jan-14 15:50

Fax To: (505) 392-6949

CELL J-3 H303157-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by EP	A Method 8260	B								
Vinyl chloride	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Methylene chloride*	ND		0.250	mg/kg	50	4010606	MS	06-Jan-14	<b>82</b> 60	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Chloroform*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	<b>826</b> 0	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	<b>82</b> 60	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Surrogate: Dibromofluoromethane			100 %	70-	130	4010606	MS	06-Jan-14	8260	
Surrogate: Toluene-d8			92.0 %	70-	130	4010606	MS	06-Jan-14	8260	
Surrogate: 4-Bromofluorobenzene			97.2 %	70-	130	4010606	MS	06-Jan-14	8260	
Semivolatile Organic Compounds b	y GCMS								*******	
Naphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's letolity and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other oxuse whatsoever shall be deemed wawed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the performance of the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



**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

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-3 H303157-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborat	ories					
Semivolatile Organic Compound	s by GCMS						1/2			
Acenaphthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Fluoranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[b]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Surrogate: Nitrobenzene-d5			64.0 %	16.1-	91.8	4010602	MS	08-Jan-14	8270C	
Surrogate: 2-Fluorobiphenyl			64.9 %	27.2-	92.9	4010602	MS	08-Jan-14	8270C	
Surrogate: Terphenyl-dl4			78.8 %	21.3-	96.1	4010602	MS	08-Jan-14	8270C	

# **Green Analytical Laboratories**

General Chemistry								
Cyanide, Total	ND	1.00 mg/kg dry	100	B401044	KLJ	07-Jan-14	EPA9012 B	
% Dry Solids	99.4	%	1	B401041	LLG	07-Jan-14	EPA160.3	H2
Soluble (DI Water Extraction)								
Fluoride	ND	0.800 mg/kg dry	4	B401043	ABP	07-Jan-14	4500-F- C	
Nitrate/Nitrite as N	7.50	0.205 mg/kg dry	5	B401073	KLJ	09-Jan-14	EPA353.2	
Nitrite as N	0.194	0.100 mg/kg dry	5	B401084	KLJ	10-Jan-14	EPA353.2	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's leability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount celd by client for analyses. All claims, including those for regigence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential demages, 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keina



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

Reported: 24-Jan-14 15:50

601 W. Illinois Project
Hobbs NM, 88242 Project

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

Fax To: (505) 392-6949

# CELL J-3 H303157-03 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	ytical Lab	oratories					
Total Metals by ICP									
Copper	4.75	2.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Iron	2040	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Zinc	6.70	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.750	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Barium	12.1	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Cadmium	0.129	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Chromium	1.78	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Lead	0.955	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Manganese	23.3	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Uranium	ND	0.100	mg/kg dry	1000	B401054	Admin	08-Jan-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0966	mg/kg dry	480	B401097	JGS	13-Jan-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardinal's lebility and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the centre of the centre of the services hereunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuna



**Eddie Seay Consulting** 601 W. Illinois

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

Reported: 24-Jan-14 15:50

Hobbs NM, 88242

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

Fax To: (505) 392-6949

# CELL J-4 H303157-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4012209	AP	23-Jan-14	4500-Cl-B	
pH*	7.86		0.100	pH Units	1	4011304	AP	16-Jan-14	150.1	
Phenois	7.3		2.5	ng/kg dry wt.	1	4012408	CK	22-Jan-14	EPA9065	GAL
Sulfate	ND		100	mg/kg	10	4012405	AP	24-Jan-14	375.4	
Radionuclides										SUB-RS
Radium-226	ND		0.30	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Radium-228	ND		0.50	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Total Radium	ND		0.50	pCi/gram	1	4012409	CK	16-Jan-14	GammaRay HPGE	
Petroleum Hydrocarbons by GC	FID					,				
GRO C6-C10	ND		10.0	mg/kg	1	4010215	ms	02-Jan-14	8015B	
DRO >C10-C28	ND		20.0	mg/kg	1	4010215	ms	02-Jan-14	8015B	
Surrogate: 1-Chlorooctane			87.9 %	65.2-1	40	4010215	ms	02-Jan-14	8015B	
Surrogate: 1-Chlorooctadecane			84.9 %	63.6-1	54	4010215	ms	02-Jan-14	8015B	
PCBs BY GC/ECD		· · · · · · · · · · · · · · · · · · ·								SUB-SS
PCB 1016	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4012410	CK	08-Jan-14	8082	
Surrogate: Tetrachloro-meta-xylene			<i>68.7</i> %	35-14	10	4012410	CK	08-Jan-14	8082	

# **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lebility and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount seld 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 corresponding days after completion, but the applicable service. In no event shall Cardinal be liable for incidental or corresponding and received by Cardinal methods, 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 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.

Celay D. Keina



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

24-Jan-14 15:50

Fax To: (505) 392-6949

CELL J - 4 H303157-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
			Cardina	Laborat	ories					
Volatile Organic Compounds by E	PA Method 826	OB								
Vinyl chloride*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Methylene chloride*	ND		0.250	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Chloroform*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
l,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4010606	MS	06-Jan-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4010606	MS	06-Jan-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4010606	MS	06-Jan-14	8260	
Surrogate: Dibromofluoromethane			102 %	70-	130	4010606	MS	06-Jan-14	8260	
Surrogate: Toluene-d8			93.3 %	<i>70</i> -	130	4010606	MS	06-Jan-14	8260	
Surrogate: 4-Bromofluorobenzene			101 %	<i>70</i> -	130	4010606	MS	06-Jan-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg∕kg	40	4010602	MS	08-Jan-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jeblity and Demogres. Condinates liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All cleims, including those for negligence and any other cause whetspeever shall be deemed welved unless made in writing and received by Condinal within thirty (30) days after completion of the applicable service. In no event shall Condinal are liable for incidental or corresponding demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcladeries, affiliation or successors arising out of or related to the performance of the services haveunder by Condinal, regardless of whether such client is based upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Control Luboratories.

Celey D. Keena

Celey D. Keene, Lab Director/Quality Manager



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

24-Jan-14 15:50

Fax To: (505) 392-6949

# CELL J-4 H303157-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	11		Cardina	l Laborat	ories					
Semivolatile Organic Compoun	ds by GCMS									
Acenaphthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
fluoranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[b]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
ndeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4010602	MS	08-Jan-14	8270C	
Surrogate: Nitrobenzene-d5			72.2 %	16.1-	91.8	4010602	MS	08-Jan-14	8270C	
Surrogate: 2-Fluorobiphenyl			72.7 <b>%</b>	27.2-	92.9	4010602	MS	08-Jan-14	8270C	
Surrogate: Terphenyl-dl4			88.0 %	21.3	96.1	4010602	MS	08-Jan-14	8270C	

#### **Green Analytical Laboratories**

General Chemistry								
Cyanide, Total	ND	1.00 mg/kg dry	100	B401044	KLJ	07-Jan-14	EPA9012 B	
% Dry Solids	98.5	%	1	B401041	LLG	07-Jan-14	EPA160.3	H2
Soluble (DI Water Extraction)								
Fluoride	7.56	0.800 mg/kg dry	4	B401043	ABP	07-Jan-14	4500-F- C	
Nitrate/Nitrite as N	1.51	0.205 mg/kg dry	5	B401073	KLJ	09-Jan-14	EPA353.2	
Nitrite as N	ND	0.100 mg/kg dry	5	B401084	KLJ	10-Jan-14	EPA353.2	

# Cardinal Laboratories \*=Accredited Analyte

PLE/SE NOTE: Jability and Demages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligance 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 libite for incidental or corresponding days, including, without limitation, business interruptione, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



Eddie Seay Consulting

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

Reported:

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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL J-4 H303157-04 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
Copper	5.36	2.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Iron	2960	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Zinc	18.9	5.00	mg/kg dry	100	B401111	JGS	14-Jan-14	EPA6010 B	
Total Metals by ICPMS									
Arsenic	2.09	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Barium	81.1	0.500	mg/kg dry	1000	B401054	JC†S	08-Jan-14	6020 A	
Cadmium	0.231	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Chromium	3.85	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Lead	0.941	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Manganese	29.4	0.500	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B401054	JGS	08-Jan-14	6020 A	
Uranium	0.412	0.100	mg/kg dry	1000	B401054	Admin	08-Jan-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.100	mg/kg dry	495	B401097	JGS	13-Jan-14	EPA7471	

Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetsoever 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 pe liabile 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 clients bessed upon any of the above stated resource or otherwise. Results related above. The report shall not be reproduced except in full with writims approved of Cardinal Laboratories.

Celey D. Keina



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

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

Reported: 24-Jan-14 15:50

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

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 4011303 - NO PREP										
LCS (4011303-BS1)				Prepared &	: Analyzed:	13-Jan-14				
рН	7.06		pH Units	7.00		101	90-110			
Duplicate (4011303-DUP1)	Sou	rce: H303118	-01	Prepared &	Analyzed:	13-Jan-14				
рН	6.95	0.100	pH Units		6.85			1.45	20	
Batch 4011304 - NO PREP										
LCS (4011304-BS1)				Prepared &	Analyzed:	13-Jan-14				
pH	7.12		pH Units	7.00		102	90-110			
Duplicate (4011304-DUP1)	Sou	rce: H303157	-04	Prepared: 1	13-Jan-14 A	nalyzed: 16	5-Jan-14			
pH	7.93	0.100	pH Units		7.86			0.887	20	
Batch 4012209 - 1:4 DI Water										
Blank (4012209-BLK1)				Prepared &	Analyzed:	22-Jan-14				
Chloride	ND	16.0	mg/kg							
LCS (4012209-BS1)				Prepared &	Analyzed:	22-Jan-14				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4012209-BSD1)				Prepared &	: Analyzed:	22-Jan-14				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 4012405 - General Prep - Wet Chem										
Blank (4012405-BLK1)				Prepared &	Analyzed:	24-Jan-14				
Sulfate	ND	10.0	mg/kg							

#### Cardinal Laboratories

\*=Accredited Analyte

REASE VOTE: Liability and Damages. Cardinals liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All cleims, including those for regigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Condinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be limited or corresponding location, without limited on, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliations 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. Keina



Eddie Seay Consulting

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

Reported: 24-Jan-14 15:50

601 W. Illinois Hobbs NM, 88242

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

Fax To: (505) 392-6949

# **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	24-Jan-14				
19.4	10.0	mg/kg	20.0		9 <b>7</b> .0	80-120			
			Prepared &	Analyzed:	24-Jan-14				
20.3	10.0	mg/kg	20.0		101	80-120	4.44	20	
			Prepared &	Analyzed:	22-Jan-14				
ND	0.5	mg/kg dry wt.							
			Prepared &	Analyzed:	22-Jan-14				
0.4		mg/kg	0.400		101	70-130			
Sour	rce: H303157	7-01	Prepared &	Analyzed:	22-Jan-14				
20.5		mg/kg	20.3	0.0	101	70-130			
	II3031 <i>5</i> 7	. 01	D 4 4		22 7 14				
Soul	ce: H30315/	-01	rrepared &	. Analyzed:	ZZ-Jan-14				
	19.4 20.3  ND 0.4  Sour 20.5	Result Limit  19.4 10.0  20.3 10.0  ND 0.5  0.4  Source: H303157	ND	Prepared &   Prepared &	Prepared & Analyzed:   19.4	Prepared & Analyzed: 24-Jan-14	Prepared & Analyzed: 24-Jan-14     19.4	Prepared & Analyzed: 24-Jan-14	Prepared & Analyzed: 24-Jan-14

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Demages. Cardinal's liability and clients exclusive remady for any cleim arising, whether based in contract or tort, shell be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whatspeers shell be deemed washed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal pe liabile for incidental or consequential demages, including, without limitation, business informance of the services hereunder by Cardinal, regardless of whether such claims is besent upon any of the active stated reasons or otherwise. Results relate only to the samples deterted above. This report shell not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keena



**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 Fax To: (505) 392-6949

24-Jan-14 15:50

# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3123103 - General Prep - Organics										
Blank (3123103-BLK1)				Prepared: 3	31-Dec-13 A	Analyzed: 0	3-Jan-14			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	65.2-140			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.5	63.6-154			
LCS (3123103-BS1)				Prepared: 3	31-Dec-13 A	Analyzed: 0	1-Jan-14			
GRO C6-C10	186	10.0	mg/kg	200		92.8	66.4-124			
DRO >C10-C28	206	10.0	mg/kg	200		103	61.6-132			
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	69.7-122			
Surrogate: 1-Chlorooctane	62.8		mg/kg	50.0		126	65.2-140			
Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	6 <b>3</b> .6-154			
LCS Dup (3123103-BSD1)				Prepared: 3	31-Dec-13 A	Analyzed: 0	1-Jan-14			
GRO C6-C10	181	10.0	mg/kg	200		90.3	66.4-124	2.69	23.4	
DRO >C10-C28	200	10.0	mg/kg	200		100	61.6-132	2.71	23.1	
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	69.7-122	2.70	20.6	
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	65.2-140			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	63.6-154			
Batch 4010215 - General Prep - Organics										
Blank (4010215-BLK1)				Prepared &	Analyzed:	02-Jan-14				
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	53.9		mg/kg	50.0		108	65.2-140			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	63.6-154			

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Jebility and Damages. Cardinal's lability and clients's exclusive remedy for any claim arising, whether besed 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 writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall Cardinal be limited to the applicable service. In no event shall cardinal be considered and the applicable service between the services between the services

Celey D. Keina



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

Reported: 24-Jan-14 15:50

Project Number: C & C LANDFARM

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4010215 - General Prep - Org	anics									
LCS (4010215-BS1)				Prepared &	Analyzed:	02-Jan-14				
GRO C6-C10	200	10.0	mg/kg	200		100	66.4-124			
DRO >C10-C28	208	10.0	mg/kg	200		104	61.6-132			
Total TPH C6-C28	408	10.0	mg/kg	400		102	69.7-122			
Surrogate: 1-Chlorooctane	63.1		mg/kg	50.0		126	65.2-140			
Surrogate: 1-Chlorooctadecane	63.4		mg/kg	50.0		127	63.6-154			
LCS Dup (4010215-BSD1)				Prepared: (	)2-Jan-14 A	nalyzed: 03	3-Jan-14			
GRO C6-C10	215	10.0	mg/kg	200		107	66.4-124	6.88	23.4	
DRO>C10-C28	208	10.0	mg/kg	200		104	61.6-132	0.0860	23.1	
Total TPH C6-C28	423	10.0	mg/kg	400		106	69.7-122	3.48	20.6	
Surrogate: 1-Chlorooctane	85.6		mg/kg	100		85.6	65.2-140			
Surrogate: 1-Chlorooctadecane	96.6		mg/kg	100		96.6	63.6-154			

Cardinal Laboratories \*=Accredited Analyte

RLEASE VOTE: Liability and Demoges. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount caid by client for analyses. All claims, including those for regispence and any other cause whatsoever shall be deemed worked 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, effiliates 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 approved of Cardinal Laboratories.

Celey & Keine



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

24-Jan-14 15:50

Fax To: (505) 392-6949

# PCBs BY GC/ECD - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4012410 - General Prep										
Blank (4012410-BLK1)				Prepared: 0	3-Jan-14 A	nalyzed: 08	8-Jan-14			
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	7.29		ug/L	10.0		72.9	35-140			
LCS (4012410-BS1)				Prepared: 0	3-Jan-14 A	nalyzed: 08	3-Jan-14			
PCB 1016	66.4		ug/L	100		66.4	40-130			
PCB 1260	76.3		ug/L	100		76.3	40-130			
Surrogate: Tetrachloro-meta-xylene	6.69		ug/L	10.0		66.9	35-140		W.L	
Matrix Spike (4012410-MS1)	Sour	rce: H303157-	01	Prepared: 0	3-Jan-14 A	nalyzed: 08	3-Jan-14			
PCB 1016	67.5		ug/L	100	ND	67.5	40-130			
PCB 1260	60.0		ug/L	100	ND	60.0	40-130			
Surrogate: Tetrachloro-meta-xylene	6.65		ug/L	10.0		66.5	35-140			
Matrix Spike Dup (4012410-MSD1)	Sour	rce: <b>H30315</b> 7-	01	Prepared: 0	3-Jan-14 A	nalyzed: 08	3-Jan-14			
				100	ND	97.8	40-130	36.7	30	QR-0
PCB 1016	97.8		ug/L	100	ND	21.0	<del>-10-130</del>	50.7	30	QK-0
PCB 1016 PCB 1260	97.8 <b>7</b> 9.9		ug/L ug/L	100	ND	79.9	40-130	28.4	30	QR-C

Cardinal Laboratories \*=Accredited Analyte

-LEASE VOTE: JebNity and Damages. Cardinel'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 claims, including those for negligence and any other cause whetspower shall be deemed watword unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pa liabile for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors anising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the above stated resource or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Liboraturies.



Eddie Seay Consulting

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

Reported:

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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

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

#### **Cardinal Laboratories**

		Reporting		эріке	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4010606 - Volatiles										
D										

Datch 4010000 - Volatiles							
Blank (4010606-BLK1)				Prepared & Anal	yzed: 06-Jan-14		
Vinyl chloride	ND	0.0500	mg/kg				
1,1-Dichloroethene	ND	0.0500	mg/kg				
Methylene chloride	ND	0.0500	mg/kg				
1,1-Dichloroethane	ND	0.0500	mg/kg				
Chloroform	ND	0.0500	mg/kg				
Carbon tetrachloride	ND	0.0500	mg/kg				
1,1,1-Trichloroethane	ND	0.0500	mg/kg				
Benzene	ND	0.0500	mg/kg				
1,2-Dichloroethane	ND	0.0500	mg/kg				
Trichloroethene	ND	0.0500	mg/kg				
Toluene	ND	0.0500	mg/kg				
Tetrachloroethene	ND	0.0500	mg/kg				
1,1,2-Trichloroethane	ND	0.0500	mg/kg				
1,2-Dibromoethane	ND	0.0500	mg/kg				
Ethylbenzene	ND	0.0500	mg/kg				
m-p Xylenes	ND	0.100	mg/kg				
o-Xylene	ND	0.0500	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg				
Naphthalene	ND	0.0500	mg/kg				
Surrogate: Dibromofluoromethane	0.500		mg/kg	0.500	100	70-130	
Surrogate: Toluene-d8	0.464		mg/kg	0.500	92.8	70-130	
Surrogate: 4-Bromofluorobenzene	0.487		mg/kg	0.500	97.3	70-130	
LCS (4010606-BS1)				Prepared & Anal	yzed: 06-Jan-14		
Vinyl chloride	1.81	0.0500	mg/kg	2.00	90.7	70-130	
1,1-Dichloroethene	2.32	0.0500	mg/kg	2.00	116	70-130	
Methylene chloride	1.67	0.0500	mg/kg	2.00	83.7	70-130	
1,1-Dichloroethane	1.65	0.0500	mg/kg	2.00	82.6	70-130	
Chloroform	1.92	0.0500	mg/kg	2.00	96.2	70-130	
Carbon tetrachloride	2.05	0.0500	mg/kg	2.00	103	70-130	
1,1,1-Trichloroethane	1.93	0.0500	mg/kg	2.00	96.4	70-130	

#### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demogras. Cardina's liability and client's exclusive remaidy for any claim arising, whether based in contract or bort, shall be limited to the amount said by client for analyses. All claims, including those for regigence 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 limited to recreat 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 limited to recreat shall be deemed waived unless made in writing and received by Cardinal interpretation of the applicable service. In no event shall cardinal be reproduced in the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated neasons 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. Kuna

Celey D. Keene, Lab Director/Quality Manager

%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

24-Jan-14 15:50

RPD

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

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

#### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4010606 - Volatiles										
LCS (4010606-BS1)				Prepared &	Analyzed:	06-Jan-14				
Benzene	1.85	0.0500	mg/kg	2.00		92.7	70-130			
1,2-Dichloroethane	1.54	0.0500	mg/kg	2.00		76.8	70-130			
Trichloroethene	1.99	0.0500	mg/kg	2.00		99.6	<b>7</b> 0-130			
Toluene	1.91	0.0500	mg/kg	2.00		95.3	70-130			
Tetrachloroethene	2.21	0.0500	mg/kg	2.00		111	<b>7</b> 0-130			
1,1,2-Trichloroethane	1.70	0.0500	mg/kg	2.00		85.2	70-130			
1,2-Dibromoethane	1.97	0.0500	mg/kg	2.00		98.7	70-130			
Ethylbenzene	1.94	0.0500	mg/kg	2.00		97.0	70-130			
n-p Xylenes	3.81	0.100	mg/kg				70-130			
>-Xylene	1.86	0.0500	mg/kg	2.00		93.2	70-130			
Total Xylenes	5.67	0.150	mg/kg	6.00		94.6	70-130			
1,1,2,2-Tetrachloroethane	1.66	0.0500	mg/kg	2.00		83.2	70-130			
Naphthalene	1.87	0.0500	mg/kg	2.00		93.3	70-130			
Surrogate: Dibromofluoromethane	0.503		mg/kg	0.500		101	70-130			
Surrogate: Toluene-d8	0.459		mg/kg	0.500		91.8	70-130			
iurrogate: 4-Bromofluorobenzene	0.490		mg/kg	0.500		97.9	<i>70-130</i>			
LCS Dup (4010606-BSD1)				Prepared &	Analyzed:	06-Jan-14				
Vinyl chloride	1.92	0.0500	mg/kg	2.00	, , , , , , , , , , , , , , , , , , , ,	96.0	70-130	5.75	20	
,1-Dichloroethene	2.41	0.0500	mg/kg	2.00		121	70-130	4.05	20	
Methylene chloride	1.80	0.0500	mg/kg	2.00		89.9	70-130	7.23	20	
,1-Dichloroethane	1.76	0.0500	mg/kg	2.00		88.0	70-130	6.39	20	
Chloroform	2.04	0.0500	mg/kg	2.00		102	<b>7</b> 0-130	6.06	20	
Carbon tetrachloride	2.18	0.0500	mg/kg	2.00		109	70-130	5.97	20	
,1,1-Trichloroethane	2.07	0.0500	mg/kg	2.00		104	70-130	7.09	20	
Senzene .	1.97	0.0500	mg/kg	2.00		98.7	70-130	6.31	20	
,2-Dichloroethane	1.64	0.0500	mg/kg	2.00		81.9	70-130	6.52	20	
Trichloroethene	2.09	0.0500	mg/kg	2.00		104	70-130	4.60	20	
oluene	1.97	0.0500	mg/kg	2.00		98.4	70-130	3.28	20	
etrachloroethene	2.31	0.0500	mg/kg	2.00		115	70-130	4.12	20	
,1,2-Trichloroethane	1.77	0.0500	mg/kg	2.00		88.6	<b>7</b> 0-130	3.92	20	
,2-Dibromoethane	2.07	0.0500	mg/kg	2.00		103	70-130	4.65	20	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: ... Mobility and Demogres. Cardinal's lebility and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount seld by client for analyses. All claims, including those for regigence and any other cause whotsoever 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 limited to the operations of the contract or consequential demagns, 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 auch 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 Cardinal Laboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

24-Jan-14 15:50

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

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

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4010606 - Volatiles  LCS Dup (4010606-BSD1)		<del></del>		Prepared &	Analyzed:	06-Jan-14				
Ethylbenzene	2.02	0.0500	mg/kg	2.00	Z Liniy Zou.	101	70-130	3.80	20	
m-p Xylenes	3.98	0.100	mg/kg				70-130	4.39	20	
o-Xylene	1.92	0.0500	mg/kg	2.00		96.2	70-130	3.16	20	
Total Xylenes	5.91	0.150	mg/kg	6.00		98.4	70-130	3.99	20	
1,1,2,2-Tetrachloroethane	1.68	0.0500	mg/kg	2.00		83.9	<b>70-13</b> 0	0.768	20	
Naphthalene	1.89	0.0500	mg/kg	2.00		94.4	70-130	1.20	20	
Surrogate: Dibromofluoromethane	0.518		mg/kg	0.500		104	70-130			
Surrogate: Toluene-d8	0.455		mg/kg	0.500		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.493		mg/kg	0,500		98.6	70-130			

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Demoges. Cardinal's liability and client's exclusive remedy for any cleim arriving, whether based in contract or tort, shall be limited to the amount seld by client for analyses. All clients, including those for regigence and any other cause whotesoever 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 corresquential demages, 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 harvunder 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.



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

24-Jan-14 15:50

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

Blank (4010602-BLK1)				Prepared: 06-Jan	-14 Analyzed: 0	8-Jan-14	
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				
Acenaphthene	ND	0.040	mg/kg				
Fluorene	ND	0.040	mg/kg				
Phenanthrene	ND	0.040	mg/kg				
Anthracene	ND	0.040	mg/kg				
Carbazole	ND	0.040	mg/kg				
Fluoranthene	ND	0.040	mg/kg				
Pyrene	ND	0.040	mg/kg				
Benzo[a]anthracene	ND	0.040	mg/kg				
Chrysene	ND	0.040	mg/kg				
Benzo[b]flouranthene	ND	0.040	mg/kg				
Benzo[k]flouranthene	ND	0.040	mg/kg				
Benzo[a]pyrene	ND	0.040	mg/kg				
ndeno[1,2,3-cd]pyrene	ND	0.040	mg/kg				
Dibenz[a,h]anthracene	ND	0.040	mg/kg				
Benzo[g,h,i]perylene	ND	0.040	mg/kg				
Surrogate: Nitrobenzene-d5	1.40		mg/kg	2.00	70.2	16.1-91.8	
Surrogate: 2-Fluorobiphenyl	1.35		mg/kg	2.00	67.6	27.2-92.9	
Surrogate: Terphenyl-dl4	1.71		mg/kg	2.00	<b>85.</b> 7	21.3-96.1	
LCS (4010602-BS1)				Prepared: 06-Jan	-14 Analyzed: 0	8-Jan-14	
Naphthalene	0.317	0.040	mg/kg	0.400	79.4	5.46-157	
2-Methylnaphthalene	0.353	0.040	mg/kg	0.400	88.3	16.1-146	
Acenaphthylene	0.336	0.040	mg/kg	0.400	84.0	21.6-144	
Acenaphthene	0.335	0.040	mg/kg	0.400	83.7	27-143	
Fluorene	0.349	0.040	mg/kg	0.400	87.3	30.9-138	
Phenanthrene	0.344	0.040	mg/kg	0.400	85.9	38.6-149	
Anthracene	0.335	0.040	mg/kg	0.400	83.7	36.1-149	
Carbazole	0.334	0.040	mg/kg	0.400	83.4	29.8-144	

# Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Dameges. Cardina's liability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whetscever 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 limited in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited in one event 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 limited to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena

%REC



#### Analytical Results For:

Eddie Seay Consulting

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

Source

Reported:

RPD

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

24-Jan-14 15:50

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 4010602 - SW846-3510	<u> </u>		···································							
LCS (4010602-BS1)				Prepared: (	06-Jan-14 A	nalyzed: 08	3-Jan-14			
Fluoranthene	0.353	0.040	mg/kg	0.400		88.1	34.6-148			
Pyrene	0.344	0.040	mg/kg	0.400		86.0	24.8-154			
Benzo[a]anthracene	0.316	0.040	mg/kg	0.400		78.9	0-179			
Chrysene	0.331	0.040	mg/kg	0.400		82.8	35.1-150			
Benzo[b]flouranthene	0.297	0.040	mg/kg	0.400		74.1	17.6-158			
Benzo[k]flouranthene	0.316	0.040	mg/kg	0.400		78.9	10.6-169			
Benzo[a]pyrene	0.305	0.040	mg/kg	0.400		76.2	2.25-166			
ndeno[1,2,3-cd]pyrene	0.482	0.040	mg/kg	0.400		120	0-181			
Dibenz[a,h]anthracene	0.477	0.040	mg/kg	0.400		119	2.49-177			
Benzo[g,h,i]perylene	0.527	0.040	mg/kg	0.400		132	0-173			
'urrogate: Nitrobenzene-d5	1.60		mg/kg	2.00		80.2	16.1-91.8			
'urrogate: 2-Fluorobiphenyl	1.53		mg/kg	2.00		76.5	27.2-92.9			
urrogate: Terphenyl-dl4	1.75		mg/kg	2.00		87.3	21.3-96.1			
.CS Dup (4010602-BSD1)				Prepared: (	06-Jan-14 A	nalyzed: 08	8-Jan-14			
Naphthalene	0.312	0.040	mg/kg	0.400		78.0	5.46-157	1.74	6.7	
-Methylnaphthalene	0.349	0.040	mg/kg	0.400		87.1	16.1-146	1.29	8.99	
cenaphthylene	0.328	0.040	mg/kg	0.400		82.1	21.6-144	2.36	14.6	
cenaphthene	0.342	0.040	mg/kg	0.400		85.6	27-143	2.17	6.99	
luorene	0.355	0.040	mg/kg	0.400		88.9	30.9-138	1.81	13.9	
henanthrene	0.341	0.040	mg/kg	0.400		85.3	38.6-149	0.683	14.6	
Anthracene	0.334	0.040	mg/kg	0.400		83.4	36.1-149	0.416	18.5	
Carbazole	0.309	0.040	mg/kg	0.400		77.3	29.8-144	7.64	23.4	
luoranthene	0,342	0.040	mg/kg	0.400		85.4	34.6-148	3.11	19.7	
Ругепе	0.352	0.040	mg/kg	0.400		88.0	24.8-154	2.22	23	
Benzo[a]anthracene	0.316	0.040	mg/kg	0.400		79.0	0-179	0.171	32.5	
Chrysene	0.324	0.040	mg/kg	0.400		80.9	35.1-150	2.29	19.4	
Benzo[b]flouranthene	0.300	0.040	mg/kg	0.400		74.9	17.6-158	1.05	31.4	
enzo[k]flouranthene	0.305	0.040	mg/kg	0.400		76.2	10.6-169	3.43	44.6	
Benzo[a]pyrene	0.308	0.040	mg/kg	0.400		76.9	2.25-166	0.849	60.5	
ndeno[1,2,3-cd]pyrene	0.429	0.040	mg/kg	0.400		107	0-181	11.7	77	
Dibenz a,h anthracene	0.420	0.040	mg/kg	0.400		105	2.49-1 <i>7</i> 7	12.8	63.3	

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's lebility and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount celd by client for analysiss. All claims, including those for negligence and any other cause whetsoever 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 including those for negligence and any other cause whetsoever 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 limited to receive the complete shall be deemed waived unless for including those for negligence and any other applicable service. In no event shall be deemed waived unless for including those for negligence and any other applicable service. In no event shall be deemed waived unless for including those for negligence and any other applicable service. In no event shall be deemed waived unless for negligence and any other applicable service. In no event shall be deemed waived unless for including those for negligence and any other applicable service. In no event shall be deemed with a publicable service. In no event shall be deemed within thirty (30) days after completion of the applicable service. In no event shall be deemed within thirty (30) days after completion of the applicable service. In no event shall be limited to the amount call by client for analysis. All claims, including those for negligence and any other applicable service. In no event shall be limited to the amount call by client for analysis.

Celey & Keine

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

24-Jan-14 15:50

Project Manager: Eddie Seay

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 4010602 - SW846-3510

LCS Dup (4010602-BSD1)	Prepared: 06-Jan-14 Analyzed: 08-Jan-14										
Benzo[g,h,i]perylene	0.462	0.040	mg/kg	0.400	116	0-173	13.1	77.4			
Surrogate: Nitrobenzene-d5	1.59		mg/kg	2.00	79.5	16.1-91.8					
Surrogate: 2-Fluorobiphenyl	1.50		mg/kg	2.00	75.2	27.2-92.9					
Surrogate: Terphenyl-dl4	1.78		mg/kg	2.00	88.8	21.3-96.1					

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Damages. Cardinal's liability and client's exclusive namedy for any cleim arising, whether based in contract or bort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspower shell be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal be liable for inclaims or corresponding claims including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdidentes, affiliates or aucressors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writing approval of Cardinal Laboraturies.



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

24-Jan-14 15:50

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

#### General Chemistry - Quality Control

# **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B401044 - General Prep - Wet Chem										
Blank (B401044-BLK1)				Prepared &	Analyzed:	07-Jan-14				
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B401044-BS1)				Prepared &	Analyzed:	07-Jan-14				
Cyanide, Total	0.0466	0.0100	mg/kg wet	0.0500		93.2	80-120			
LCS Dup (B401044-BSD1)				Prepared &	Analyzed:	07-Jan-14				
Cyanide, Total	0.0486	0.0100	mg/kg wet	0.0500		97.2	80-120	4.20	20	

Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Jeblity and Damages. Cardinal's lability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount calcil by client for analyses. All claims, including those for negligence and 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 corresponding days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding and eventually and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the amount calcil 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 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 Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 39



**Eddie Seay Consulting** 

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

Reported:

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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

#### Soluble (DI Water Extraction) - Quality Control

# **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B401043 - General Prep - Wet Chem										
Blank (B401043-BLK1)				Prepared &	Analyzed:	07-Jan-14				
Fluoride	ND	0.200	mg/kg wet							
LCS (B401043-BS1)				Prepared &	Analyzed: (	07-Jan-14			1111	
Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115			
LCS Dup (B401043-BSD1)				Prepared &	Analyzed:	07-Jan-14				
Fluoride	1.02	0.200	mg/kg wet	1.00		102	85-115	3.85	20	
Batch B401073 - General Prep - Wet Chem										
Blank (B401073-BLK1)				Prepared: 0	08-Jan-14 Ar	nalyzed: 09	9-Jan-14			
Nitrate/Nitrite as N	ND	0.205	mg/kg wet							
LCS (B401073-BS1)				Prepared: 0	08-Jan-14 Ar	nalyzed: 09	9-Jan-14			
Nitrate/Nitrite as N	2.89	0.205	mg/kg wet	2.50		115	80-120			
LCS Dup (B401073-BSD1)				Prepared: 0	08-Jan-14 Ar	nalyzed: 09	9-Jan-14			
Nitrate/Nitrite as N	2.74	0.205	mg/kg wet	2.50		110	80-120	5.16	20	
Batch B401084 - General Prep - Wet Chem										
Blank (B401084-BLK1)				Prepared: 0	09-Jan-14 Ar	nalyzed: 10	0-Jan-14			
Nitrite as N	ND	0.100	mg/kg wet							
LCS (B401084-BS1)				Prepared: 0	09-Jan-14 Ar	nalyzed: 10	)-Jan-14			
202 (2.0100, 201)										

Cardinal Laboratories \*=Accredited Analyte

RLEASE NOTE: Jability and Damages. Cardinal's lebility and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regispence and any other cause whatsoever shall be deemed watwed 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 & Kuna



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

24-Jan-14 15:50

Fax To: (505) 392-6949

Soluble (DI Water Extraction) - Quality Control

# **Green Analytical Laboratories**

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

#### Batch B401084 - General Prep - Wet Chem

LCS Dup (B401084-BSD1)				Prepared: 09-Ja	n-14 Analyzed: 10	-Jan-14		
Nitrite as N	0.555	0.100	mg/kg wet	0.500	111	80-120	0.897	20

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remaidy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause wholesoever 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 including, 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 claims to 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 & Keena

0/DEC



# 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

24-Jan-14 15:50

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# Total Metals by ICP - Quality Control

# **Green Analytical Laboratories**

[		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B401111 - EPA 3050										
Blank (B401111-BLK1)				Prepared &	Analyzed:	14-Jan-14				
Iron	0.076	0.050	mg/kg dry							B
Copper	0.040	0.020	mg/kg dry							B
Zinc	ND	0.050	mg/kg dry							
LCS (B401111-BS1)				Prepared &	Analyzed:	14-Jan-14				
Zinc	1.80	0.050	mg/kg dry	2.00		89.8	85-115			
Copper	3.80	0.020	mg/kg dry	4.00		95.0	85-115			
Iron	3.86	0.050	mg/kg dry	4.00		96.5	85-115			
LCS Dup (B401111-BSD1)				Prepared &	Analyzed:	14-Jan-14				
Zinc	1.79	0.050	mg/kg dry	2.00		89.3	85-115	0.569	20	
Iron	3.81	0.050	mg/kg dry	4.00		95.2	85-115	1.34	20	
Copper	3.77	0.020	mg/kg dry	4.00		94.1	85-115	0.887	20	

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

Celey D. Keine



**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

24-Jan-14 15:50

Fax To: (505) 392-6949

# Total Metals by ICPMS - Quality Control

## **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
rumij w	Result	Lillik	Ollida	Level	Result	AUCEC	Linia	KFD	Lunt	Notes
Batch B401054 - EPA 3050M										
Blank (B401054-BLK1)				Prepared &	Analyzed:	08-Jan-14				
Uranium	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
3arium	ND	0.0005	mg/kg dry							
LCS (B401054-BS1)				Prepared &	Analyzed:	08-Jan-14				
Chromium	0.0513	0.0010	mg/kg dry	0.0500		103	85-115			
Cadmium	0.0539	0.0001	mg/kg dry	0.0500		108	85-115			
Silver	0.0522	0.0001	mg/kg dry	0.0500		104	85-115			
Barium	0.0506	0.0005	mg/kg dry	0.0500		101	85-115			
Seleniu <del>m</del>	0.282	0.0010	mg/kg dry	0.250		113	85-115			
Lead	0.0498	0.0005	mg/kg dry	0.0500		99.6	85-115			
Manganese	0.0481	0.0005	mg/kg dry	0.0500		96.2	85-115			
Arsenic	0.0540	0.0005	mg/kg dry	0.0500		108	85-115			
Jraniu <del>m</del>	0.0518	0.0001	mg/kg dry	0.0500		104	85-115			
LCS Dup (B401054-BSD1)				Prepared &	Analyzed:	08-Jan-14				
Chromium	0.0541	0.0010	mg/kg dry	0.0500		108	85-115	5.39	20	
Cadmium	0.0543	0.0001	mg/kg dry	0.0500		109	85-115	0.811	20	
Manganese	0.0526	0.0005	mg/kg dry	0.0500		105	85-115	9.00	20	
Barium	0.0517	0.0005	mg/kg dry	0.0500		103	85-115	2.17	20	
Arsenic	0.0526	0.0005	mg/kg dry	0.0500		105	85-115	2.64	20	
elenium	0.279	0.0010	mg/kg dry	0.250		112	85-115	0.935	20	
Silver	0.0532	0.0001	mg/kg dry	0.0500		106	85-115	1.82	20	
Jranium	0.0520	0.0001	mg/kg dry	0.0500		104	85-115	0.474	20	
.ead	0.0501	0.0005	mg/kg dry	0.0500		100	85-115	0.498	20	

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Jubility and Damages. Cardinal's lability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whotsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed warved unless made in writing and received by Cardinal writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed warved unless 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 hareunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

24-Jan-14 15:50

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

## Total Mercury by CVAA - Quality Control

# **Green Analytical Laboratories**

			Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	13-Jan-14				
ND	0.0002	mg/kg wet							
			Prepared &	Analyzed:	13-Jan-14				
0.0021	0.0002	mg/kg wet	0.00200		106	85-115			
			Prepared &	Analyzed:	13-Jan-14				
0.0022	0.0002	mg/kg wet	0.00200		108	85-115	1.78	20	
	ND 0.0021	ND 0.0002 0.0021 0.0002	ND 0.0002 mg/kg wet 0.0021 0.0002 mg/kg wet	Prepared &	Prepared & Analyzed:  ND 0.0002 mg/kg wet  Prepared & Analyzed:  0.0021 0.0002 mg/kg wet 0.00200  Prepared & Analyzed:	Prepared & Analyzed: 13-Jan-14  ND 0.0002 mg/kg wet  Prepared & Analyzed: 13-Jan-14  0.0021 0.0002 mg/kg wet 0.00200 106  Prepared & Analyzed: 13-Jan-14	Prepared & Analyzed: 13-Jan-14  ND 0.0002 mg/kg wet  Prepared & Analyzed: 13-Jan-14  0.0021 0.0002 mg/kg wet 0.00200 106 85-115  Prepared & Analyzed: 13-Jan-14	Prepared & Analyzed: 13-Jan-14  ND 0.0002 mg/kg wet  Prepared & Analyzed: 13-Jan-14  0.0021 0.0002 mg/kg wet 0.00200 106 85-115  Prepared & Analyzed: 13-Jan-14	Prepared & Analyzed: 13-Jan-14  ND 0.0002 mg/kg wet  Prepared & Analyzed: 13-Jan-14  0.0021 0.0002 mg/kg wet 0.00200 106 85-115  Prepared & Analyzed: 13-Jan-14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regispence and 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 limited to recrease, uncluding, 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **Notes and Definitions**

 $0.6 \pm 0.1$ Z-01a 0.5 ± 0.1 **Z-01** Analysis subcontracted to SunStar Laboratories, Inc. SUB-SS Analysis subcontracted to Radiation Safety Engineering, Inc. SUB-RS The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC QR-02 batch were accepted based on percent recoveries and completeness of QC data. Sample analysis performed past hold time specified by the method. H2 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 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

\*\*REF NOTE: Liability and Damages. Cardinal's liability and clients exclusive remady for any clean arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All cleans, including those for regispence and any other cause whetspewer 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 limited for incidental or corresponding distances, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, efficiency or aucressors arising out of or related to the performance of the services hereunder by Cardinal, progradies of whether such claims is bread upon any of the obove stated reasons or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with writina approved of Cardinal Laboratories.

Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

9



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		Cardinal cannot accept verbal changes. Please fax written changes to (575) 395-3328	† Cardi
	CHECKED BY:	Sample Condition  No I have	Delivered Sampler - U
	·	Time: Name oy:	Ralinquished
. 🗖	MADY REMARKS:	Time(): 3 0	
0 Yes	n eny of the above stated resears or otherwise.  Phone Result:	an subject of a related to the endomenous of services because for Openha, separates of whether such classic level uses and five.	Affidite of supposers with a
quiendia	be indied to the annual paid by the client for the Cardinal within 30 days after completion of the appropriate of the appropria	Liabilly and Damagos. Cardinal's liability and elect's exclusive remody for any datin subsing whether besed in contract or lost shall be it as helating these for negligenous and any other cause whethereover shall be desmail water (righer ands in willing and reashed by Care	
	H		
	) 12/30/2:40	C. 00 75 - 4   V   S   V     V	
	J 120 3: 05		
	1 28:50 08 164 1	6.00 T-7 25 U	
	J 12)30 2:10 F		
PCE PCE PCE TCE Methy Chlor Trick Totro Viny Polyar	ICE / COOL OTHER: DATE	GARZADOR (C)OMP  CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	Lab I.D.
مالع	PRESERV. SAMPLING	MATRIX	FOR LAB USE ONLY
	7	TETL TONKING PORT	roject Locati
war whi	Zip:	MATERIA (NM.01.0012)	roject Name:
no	13	G. Project Owner: J. Coop &	meet#: CGC
To the	12	1236 Fax# 2.69	hone #: 2
	7		
	ny:	Company:	ddress: (
1		Wie Sol	oject Manager: 石。
ANALYSIS REQUEST		mo: Edia Som Consultan	ompany Name:
		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (675) 393-2476	



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By Sampler - UPS	Relinquished By:	mpany Name: E- oject Manager: E- ddress: Leb \ ddress: C-C oject Name: C-C ampler Name: C-C ampler Name: C-C Cb
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	rquished By:	Sample I.
3.60	Time:	M (N) 383-247
Sample Condition Cool Intact C	olved By:	GROUNDWATER WASTEWATER  WASTEWATER  OIL  OIL  SLUDGE
ES CHECKED BY:	7	OTHER:  OTHER:  PRO State:  Add Attn:  ACID/BASE:  PRESIDENT  OTHER:
	yder, in subdetal.  Phone Result: Fax Result: REMARKS:	SAMPLING SAM
<b>*</b> 3:	□ Yes □ □	TPH (ROLS)
	No Add'i Phone #	Barrium. Cadminum
		Cypinde REQUEST RECUEST
	•	Silanium
		PCB

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

# C & C LANDFARM NM-01-0012

# **BI-ANNUAL SAMPLING**

**SEPTEMBER 2013** 

RECEIVED OCD

7017 SEP -9 P 12: 43

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 H

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

601 W. Illinois Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: C & C Landfarm



August 05, 2013

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 07/31/13 9:00.

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 & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**Eddie Seay Consulting** 

Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL A - T (H301803-01)

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	08/01/2013	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	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	19.3	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	95.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	121	<b>%</b> 63.6-15	4						

### Sample ID: CELL B - T (H301803-02)

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	08/02/2013	ND	416	104	400	0.00	
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	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	51.3	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	93.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1179	6 63.6-15	4						

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Librally and Demogras. Cardinal's facilities und clearly exclusive remody for any claim arising, whether sensed in contract or earl, shall be femiliad to the amount paid by clearly for analyses. All claims, including those for negligance and ary other case whitebower shall be desired waived unless made in writing and received by Cardinal within their 300 days after completes on the applicable service. In no worst shall Cardinal be liable for incidental or consequential demages, including, without limitation, sustains interruptions, loss of use, or loss of profits incurred by Cardinal within their such dates is best upon any of the above stated resource or otherwise. Results related above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuna



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

Fax To:

(505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL C - T (H301803-03)

Chloride, SM4500CF8	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/ kog	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	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	22.4	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	94.0	% 65.2-14	0	Marie Marie	*****				7.1
Surrogate: 1-Chlorooctadecane	118	63.6-15	4						

### Sample ID: CELL D - T (H301803-04)

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	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzo	d By: MS		A.F.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	NO	180	90.0	200	0.0806	
DRO >C10-C28	105	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	97.9	% 65.2-14	0		54 AV				
Surrogate: 1-Chlorooctadecane	133	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

nt paid by client for analyses. All claims, including those for negligence and any other cause whistonous shall be deemed valved unless made in writing and received by Cardinal within that'y (30) days after completion of the applicable service. In no event shall Cardinal be Sable for incidental or consequential damages, including without limitation, justices interruptions, loss of use, or loss of profits incurred by client, its substitutions, additional proposed control to the performance of the services remunder by Cardinal, regardless of whether such claims is based upon any of the double stated reservor or ordinarious. Personal invalidation is that may be stated reservor or ordinarious. Personal invalidation is that may be supplied activities of the samples stated activities.

Celey D. Kuna



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

Fax To:

(505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

Sampling Type:

Soil

08/05/2013

Cooi & Intact

Project Name: Project Number: C & C LANDFARM - TREATMENT ZONE NM-01-0012

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL E - T (H301803-05)

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	08/02/2013	ND	416	104	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	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	98.1	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	94.2	% 65.2-14	10					· W	
Surrogate: 1-Chlorooctadecane	125	<b>%</b> 63.6-15	i <b>4</b>						

# Sample ID: CELL F - T (H301803-06)

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	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	NED	180	90.0	200	0.0806	
DRO >C10-C28	63.5	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	88.9	% 65.2-14	0						5,170
Surrogate: 1-Chlorooctadecane	1189	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

RLEKSE NOTE: Usbillty and Demogras. Continuits liability and client's exclusive remody for any claim arising, whether sensel in contract or tort, shall se limited to the amount paid so client for analyses. All claims, including those for magingance and any other cause whistoever shall se deemed watered unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be faible for incidental or consequential damages, including, without limitation, sustress interruptions, loss of use, or loss of srofts incurred by client, its substitutes, afflictes or successors arising out of or related to the performance of the services remunder by Cardinal, regardless of whether such claims is based upon any of the above stated researce or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Kune



Eddie Seay Consulting Eddie Seay

601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL G - T (H301803-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	ang.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	<10.0	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	82.5	<b>%</b> 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

### Sample ID: CELL H - T (H301803-08)

	•								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzo	d By: MS		A			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	291	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	88.9	<b>%</b> 65.2-14	0						
Surrogate: 1-Chlorooctadecane	118	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Listality and Damagus. Cardinal's listality and client's acclusive remady for any claim arising, whether seased in context 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 diseased universe shall be diseased universe shall be diseased universe. In this shall be for incidental or corresponded diseases, including, without limitation, sustress interruptions, loss of use, or loss of smalls incurred by Cardinal what is substitutely, and diseased 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 D. Keine



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

Fax To: (505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

C & C LANDFARM - TREATMENT ZONE NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL I - T (H301803-09)

Chloride, SM4500CI-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	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	98.4	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	92.4	<b>%</b> 65.2-14	0						
Surrogate: 1-Chlorooctadecane	122	63.6-15	4						

### Sample ID: CELL J - T (H301803-10)

Chloride, SM4500CI-B	rng/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	neg /	lag .	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	195	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	93.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	137	63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Usbillity and Demogras. Candhaffs Mobility and clearly exclusive removely for any clear entropy, whether passed in contract or tort, shall be limited to the emount paid by clear for analyses. All clears, including those for regigance and any other cause whitesower that are desented minimal minimal mands in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, suches interruptions, loss of use, or loss of profits incurred by client, its substitutines, affiliates or successors arising out of or related to the performance of the services networks required by Cardinal, regardless of whether such claim is bessel upon any of the above stated neasons or otherwise. Results white only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Luboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

130 %

63.6-154

Sampling Type:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL K - T (H301803-11)

mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	08/02/2013	ND	416	104	400	0.00	
rog.	/kg	Analyzo	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
102	10.0	08/03/2013	ND	198	98.9	200	1.23	
04.0	<b>K</b> 652.14	10						
	Result <16.0 mg, Result <10.0	<16.0 16.0 mag/kg  Result Reporting Limit <10.0 10.0 10.0	Result Reporting Limit Analyzed  <16.0 16.0 08/02/2013  mg/kg Analyzed  Result Reporting Limit Analyzed  <10.0 10.0 08/03/2013  102 10.0 08/03/2013	Result         Reporting Limit         Analyzed         Method Blank           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <16.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <16.0

### Sample ID: CELL L - T (H301803-12)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg	/ ky	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	109	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	85.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Rability and client's exclusive are other case whatsoever shall be deemed waited unless made in writing and received by Cardinal within 81thy (30) days after completion of the applicable service. In the event shall Cardinal be labble for incident holding, without limitation, such as the implicit of the applicable service. In the event shall Cardinal be labble for incident holding, without limitation, such as the implicit of the applicable service. In the event of the service manner of the applicable service of the service manner of the applicable service. 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

Received:

07/31/2013

Sampling Date:

07/30/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - TREATMENT ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL M - T (H301803-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>8</b> S	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/02/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	37.9	10.0	08/03/2013	ND	198	98.9	200	1.23	
Surrogate: 1-Chlorooctane	89.9	<b>%</b> 65.2-14	ю						
Surrogate: 1-Chlorooctadecane	118	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Damagas. Cardina's lability and client's exclusive remody for any claim arising, whether seased in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligance and any other cause whatsoever shall be desented waived unless made in writing and excelled by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding demagas, including, without limitedory, outsiness interruptions, loss of use, or loss o

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 SN4500Cl-8 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

RLEASE NOTE: Liability and Demagos. Cordinal's liability and clean's exclusive remarks for any clean arising, whether pased in contract or tort, shall be limited to the amount paid by clean for melasis. All cleans, including those for negligence and any other cause whelsower shall be deemed waited unless made in widing and received by Cardinal within thirty (30) days after completion of the applicable service. In to event shall Cardinal be liable for incidental demagos, thicking, without limitation, pastern shallow, pastern sha

Celey D. Keine



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

Address: (40) The cardia Company:  City: 1 Address: State: 1 Address: Atting  Phone #: 2 · 22 3
Phone \$: 2 · 27 3 L Fax \$: 2 - (1949 Address)  Project \$: C+C Project Owner: \$\overline{1}\$. City:  Project Name: C+C Lound Furs. (NM · 0) · 03/2 State:  Project Location: Month Name NM Sub-3 Phone \$:  Sempler Name: C+C Sample I.D.  Lab I.D. Sample I.D.  WATRIX PRESERV. SAMPLING  MATRIX PRESERV. SAMPLING  MATRIX PRESERV. SAMPLING  MATRIX PRESERV. SAMPLING  Address
Project #: C+C Project Owner: J. City:  Project Name: C+C Lawford DM 5 J State:  Project Location: Monument DM 5 J State:  Project Location: Monument DM 5 J State:  Phone #:  Sampler Name: C+C Lawford DM 5 J State:  Phone #:  Sampler Name: C+C Lawford DM 5 J State:  Phone #:  Sampler Name: C+C Lawford DM 5 J State:  Phone #:  Sampler Name: C+C Lawford DM 5 J State:  Phone #:  DATE TIME  J J J J J J J J J J J J J J J J J J J
Project Name: CFC Lound NM O) · O32 State:  Project Name: CFC Lound NM Sat 3 Phone #:  Sempler Name: GHC Sample I.D.  Lab I.D. Sample I.D.  WATRIX PRESERV. SAMPLING  MATRIX PRESERV. SAMPLING  WATRIX P
Project Name: C.
Project Location: Manual NM SJ 3 Phone #:  Sempler Name: 54 20 Semple I.D.  Lab I.D. Sample I.D.  WASTEWALER ONLY PRESERV. SAMPLING  WASTEWALER ONLY STORY OF THE TIME  H301803  COO A - J I WASTEWALER ON STORY OF THE TIME  TABLE TIME  7/30 (6:40 V )
Lab I.D. Sample I.D.  WAYRIEWALER  OUT CE/COOT A CONTAINER  SALUDGE  OUT CE/COOT A CONTAINER  OU
Lab I.D. Sample I.D.  WATRIX PRESERV. SAMPLING  STINDOR OF TO OLI COLON TIME  TO OLI COLON THE TIME
1 CDQ A - T J J D J 7/30 (0:40 V )
1 CDQ A - T U 1 0 1 1 730 18:40 V D
1 CDQ A - T U 1 0 1 1 730 18:40 V D
1 CDQ A - T U 1 0 1 1 730 18:40 V D
1 CDQ A - T U D V 7/30 (6:40 V D
2 Cel B - T // / / 2180 11:08 2 2
3 000 0-7 00 0 0 750 12:30 0 0
5 Calo E - T D 2 V D 730 3:15 V V
760 6-1
1 9 Coo T-1. NII N 175 4. ap / D
PLEASE NOTE: Liability and Dismages. Cestinal's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the smount paid by the client for the samples. All claims including those for negligence and any other cause whatscover shall be deemed weived unless made in writing and received by Cestinal within 30 days after completion of the applicable
analyses. All claims including those for negligerod and any order cause pressurations are and order control of the property of the service. In no event shall Cardinal be labble for incidental or consequential damages, including without invited to, businesse interruptions, loss of use, or loss of profits incurred by client, its substitutions, and incurred by client, its substitutions, incurred by client, its substitution
Relinquished By:   Date   Phone Result: U Yes U Ro Add Phone R:
Time: Qarn Washed By:  Relinquished By:  Date: Received By:
Reiniquisited by.
Time:
Delivered By: (Circle One) Sample Condition Cool Intact Affittali
Sampler - UPS - Bus - Other: 4.82 Pes No No No



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Edit Sea Consulting		ANALYSIS REQUEST
Project Manager: Edit to Sant	P.O. #:	
Address: (001 W Illianis	Company:	1
City: 14 2005 State: 11 Zip: 88242	Attin	
Phone #: 2 - 223 6 Fax #: 2 - 4949	Address	
Project #: C+C Project Owner: J. Cappy	City:	
Project Name: CFC Lantform (NM. 01. 032)	State: Zip:	] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
Project Location: Manuscat NM Set 3	Phone #:	
Sampler Name: Gue Son ven I ven I want Zore	Fax #:	](5) \
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
(C)COMP ERS ERS		
	الاسال	
Lab I.D. Sample I.D.	ACIDIGE COLLER : STUDGE COLLER	[A]
H301803	SUDGE STORES	
H301803	7 7 7 30 4:50	
1 500 K - 7 DII II	J 7/30 5:15	
12 (2.00) 1	7130 5:45	13   3
13 C. O. M - T NI D	U 7/30 4:10	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any claim string whether based in cor	tract or fort, shall be irrolled to the amount could by the client	Pr the
PLEASE NOTE: Labority and unique. Certains a secure of the county of the	i and received by Cardinal within 30 days after complation o	of the applicable
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such of	atm is based upon any of the above stated reasons or other	Wisi.
The interest of the state of th	Do Noon REMAR	ult: 🛘 Yes 🗆 No Add'i Fex#:
Time: gan your	A REMAR	
Relinquished By: Date: Received By:	·	
Time:		·
Delivered By: (Circle One) Sample Cor		•
Sampler - UPS - Bus - Other:	Yes No	
andinal connect accord vertical changes. Please fax written changes	40 (ETE) 20 222E	



August 05, 2013

**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 07/30/13 9:00.

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> 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> accredited accredited analytes and materials.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

Sample ID: CELL. A - V (H301787-01)

STEX 80218	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 89.4-12	6						
Chioride, 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	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	83.1	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1109	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Usbillity and Jamages. Cardina's Rability and client's exclusive remedy for any claim arising, whether jamed in contract or tort, shall be limit ted to the amount paid by client for analyses. All claims, including those for negligence and any other case whitsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (33) days effer completion of the applicable service. In to event shall Cardinal be liable for incidental or consequential demagns, including, without limitation, sustress interruptions, loss of use, or loss of small incidents, affiliates or successors arising out of or related to the performance of the services neutralize by Cardinal, regardless of whether such claims is bessel upon any of the above stated resource or otherwise. Results relate only to the samples intriffed above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

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



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

Fax To: (505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

116%

63.6-154

Sampling Type:

Soil

Reported:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

Sample ID: CELL B - V (H301787-02)

BTEX 80218	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0						

### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

RERSE NOTE: Usbillity and Danages. Cardina's liability and client's exclusive remark for any claim arising, whether pased in contract or tort, shall be limited to the amount pold by client for analysis. All claims, including those for negligence and any other cause whitshower shall be desired willed in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In to event shall Cardinal be liable for incidental or consequential demages, including, without limitation, pushess interruptions, loss of use, or loss of profile incurred by client, its substitutions, affiliation or successors entaing out of or related to the performance of the services renounter by Cardinal, regardless of whether such client is based upon any of the above stated resource or otherwise. Results related above. This report shall not be reproduced accept in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number: Project Location: NM-01-0012

MONUMENT, NM SECT 3

Sample Received By:

Jodi Henson

Sample ID: CELL C - V (H301787-03)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 89.4-12	6		7.72				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS			***	- 1-11 man	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	87.65	% 65.2-14	0			***************************************			
Surrogate: 1-Chlorooctadecane	1129	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Librality and Demagns. Cardinal's librality and clern's exclusive namedy for any cleim anisting, whether seemd in contract or tort, shall se limited to the amount peld sy clerk for analyses. All cleims, including those for negligance and any offer cause whatsoever shall so deemed waked 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 demagns, including, without limitation, such as thempotens, loss of use, or loss of small incident sy clerk, its substitients, affiliates or successors arising out of or related to the performance of the services network symmetry. Cardinal, regardless of whether such cleim is based upon any of the above stated resource or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approved of Cardinal Librariantees.

Celey D. Keene



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

Sampling Condition:

Project Number:

C & C LANDFARM - VADOSE ZONE NM-01-0012

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL D - V (H301787-04)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	83.9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1109	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clean's exclusive remark for any claim arising, whether seesd in contract or tors, shall be femilied to the emount paid by cleart for analyses. All claims, including those for negligence and any other cause whistoneer shall be desired welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponded demages, including, without limitation, outsides in thempotone, loss of use, or loss of

Celey D. Kuna



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

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

Project Number: Project Location:

NM-01-0012

MONUMENT, NM SECT 3

Sample ID: CELL E - V (H301787-05)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20	
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	92.8	65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 9	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

REPOSE NOTE: Liability and Demogrie. Cerdinal's liability and clent's exclusive remody for any cleim arising, whether pased in contract or tort, shall be limited to the emount paid by clent for analysis. All cleims, including those for negligance and any other cause whatsoever shall be diseased whether whiting and received by Cerdinal within thatty (30) days after completion of the applicable service. In no event shall Cerdinal be liable for incidental or consequential demagns, hetsoin, bots of use, or loss of profits incurred by clent, its substitutes, affiliates or accessors arising out of or related to the performance of the services revenued by Cerdinal, regardless of whether such clean is based upon any of the above stated researce or otherwise. Results related above, the report shall not be reproduced except in full with written approved of Cerdinal Laboratories.

Celey D. Keine



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

Sampling Type:

Soil

08/05/2013

Sampling Condition:

Cool & Intact

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

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL F - V (H301787-06)

BTEX 80218	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.100	0.100	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.350	0.350	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	86.5 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1169	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

paid by client for analyses. All daims, including those for negligence and any other case whethore shall be deemed unless made in writing and received within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequently demands, including which in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequently demands, including without limitables, affects or successors arising out of or related to the performance of the services networks networks. Results relate only to the semples identified above. This report shall not be reproduced except in full with written accrossed of Cardinal Laboratories.

Celey D. Keene



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

Fax To: (505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

Sampling Type:

08/05/2013

NM-01-0012

Sampling Condition:

Soil

Project Name: Project Number: C & C LANDFARM - VADOSE ZONE

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL G - V (H301787-07)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.050	0.050	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	83.3	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Usbility and Damages. Cerdinal's labelity and client's exclusive remedy for any claim arising, whether passed in contract or tort, shall be limited to the amount paid by claim to energy shall be labele for incidental or corresponded demages, including, without limitation, public be applicable service. In no event shall Cardnel be labele for incidental or corresponded demages, including, without limitation, public be interpreted by Cardnel within thirty (30) days after completion of the applicable service. In no event shall Cardnel be labele for incidental or corresponded demages, including, without limitation, public shall be interpreted as of or national control or related to the performance of the services respected by Cardnel, regardless of whether such claims is based upon any of the above stated resource or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardnel Laboratories.

Celeg & Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 16



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

Sampling Type:

Soil

08/05/2013

Sampling Condition:

Cool & Intact

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

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL I - V (H301787-08)

STEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.050	0.050	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 89.4-12	6						
Chloride, SN4500Cl-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	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	91.6	65.2-14	0			745-11	440		
Surrogate: 1-Chlorooctadecane	1199	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLENSE NOTE: Liability and Demogras. Cardinal's liability and clean's seclusive remarks for any clean arising, whether seems in contract or tors, shall be limited to the amount paid by clean for event shall Cardinal be liable for incidental or corresponding diseases whatsoever shall be deemed waived unless made in writing and necessed by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresponding diseases, including, without limitation, sushess interruptions, loss of use, or loss of profits incurred by cleanly in substitutes, affiliation or successors arising out of or related to the performance of the services necessarily by Cardinal, regardless of whether such cleans is based upon any of the doors stated resource 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 D. Kuna



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

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

Project Number: Project Location:

NM-01-0012

MONUMENT, NM SECT 3

Sample ID: CELL J - V (H301787-09)

BTEX 8021B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.050	0.050	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	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	16.0	16.0	07/31/2013	ND	400	100	400	<b>3.9</b> 2	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	86.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1129	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

REPSE NOTE: Liability and Demogas. Condina's lability and client's exclusive namedy for any cleim arising, whether possed in contract or tort, shall be limited to the amount paid by cleint for analyses. All cleims, including those for negligence and any other cases whistower shall be diseased whisted. In no event shall be diseased in widting and received by Cardhall within thirty (30) days after completion of the applicable service. In no event shall Condinal be liable for incidental or consequential demagns, including, without limitablism, pushess interruptions, loss of use, or loss of profits incurred by client, its substitutes or accessors arising out of or related to the performance of the services nervarder by Cerdinal, regardless of whether such clein is based upon any of the above stated insector or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardhal Laboratories.

Celey D. Keine



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

(505) 392-6949 Fax To:

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL K - V (H301787-10)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.050	0.050	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
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	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	84.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1109	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardinal's liability and clern's exclusive remody for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by clern for analyses. All cleims, including those for negligance and any other causes whatsoever shall be desirated united waved. In this made in witing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or correspondible damages, history, without limitation, business interruptions, loss of use, or loss of profits incurred by clern, its subsideries, efflicities or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cleims is based upon any of the above stated research or otherwise. Results related whose the regardless of whether such

Celey D. Keene



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

08/05/2013

Sampling Type:

Soil

Project Name:

C & C LANDFARM - VADOSE ZONE

Sampling Condition:

Cool & Intact

Project Number:

NM-01-0012

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL L - V (H301787-11)

BTEX 8021B	mg/	kg	Analyze	d By: DW					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.050	0.050	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.300	0.300	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	83.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1079	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEKSE NOTE: Liability and Damages. Continents liability and clern's exclusive remark for any cleim entiting, whether based in contract or tort, shall be limited to the amount paid by cleint for analyses. All cleims, including those for negligence and any other cause wholesower shall be deemed welved unless media in writing and received by Cardhell within thirty (30) days after completion of the applicable service. In no event shall Contined be liable for incidental or consequential demages, including, without limitation, pushess inhamptions, loss of use, or loss of profits incurred by cleint, its substitutes, affiliates or successors arising out of or related to the performance of the services measurement by Cardhell, regardless of whether such cleims is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approved of Cardhell Laboratories.

Celey D. Keena



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

Fax To:

(505) 392-6949

Received:

07/30/2013

Sampling Date:

07/29/2013

Reported:

Sampling Type:

Soil

08/05/2013

Sampling Condition:

Cool & Intact

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

Sample Received By:

Jodi Henson

Project Location:

MONUMENT, NM SECT 3

### Sample ID: CELL M - V (H301787-12)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2013	ND	1.99	99.6	2.00	0.870	
Toluene*	<0.100	0.100	08/01/2013	ND	1.94	97.1	2.00	0.758	
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.02	101	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.10	102	6.00	1.72	
Total BTEX	<0.350	0.350	08/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	<16.0	16.0	07/31/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/01/2013	ND	179	89.5	200	0.282	
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	182	91.1	200	2.60	
Surrogate: 1-Chlorooctane	89.8	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1159	6 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardinal's liability and clean's exclusive remady for any claim arising, whether seed 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 weived 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 correspondintal demagas, including, without limitation, business interruptions, loss of use, or loss of use, and incidental accessors arising out of or related to the performance of the services retruited by Cardinal, regardless of whether such claims is based upon any of the above stated researce 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 D. Keene



### **Notes and Definitions**

NĐ	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 Demagas. Cardina's liability and clerit's exclusive remady for any cleim arising, whether seed in contract or tort, shall se limited to the amount paid sy clerit for analysis. All cleims, including those for negligance and any other cause whatsower shall se deemed well-when making and received by Cardinal within thirty (30) days after completton of the applicable service. In so event shall Cardinal be liable for incidental or consequential demagas, including, without limitation, suchess interruptions, loss of use, or loss of softs incurred sy clerit, its substituties, affiliates or successors arising out of or related to the performance of the services securities sy Cardinal, regardless of whether such cleims is beased upon any of the above stated researce or otherwise. Results related above, this report what not be reproduced except in full with written approved of Cardinal Liaboratories.

Celey D. Keine



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Edd Son Co	<b>N</b> 3	0.	Vien		far in the	ic C			Α	NALYS	SIS RI	QUE	ST	7		
Project Manager:		_	-7	P.O. #:												
Address: 601 W Ill work				Company:	·											
City: State: NW	Zip	:9	X247	Attn:												
Phone #: 2 . 2234 Fax #: 4	L	9	49	Add												
Project #: Project Owne	<b>#</b> 2	,	Coan	City:	4	<u> </u>			.							
Project Name: CAC Cantaria C	N	۸۰	0(,00(2)	State: Zip:												. 1
Project Location: Monce and N.M	5	£	<b>(</b> 2)	Phone #:		1	/ पु					1			**	
	ام	200	se Zone	Fax#:			C	(								
FOR LAB USE ONLY	Τ.		MATRIX	PRESERV. 8	SAMPLING	l٧				.	1.	1				
	18	_	es l			1		د .				1				
	8	E E	MA E		. [	10	1	_9			1	1.	1			
Lab I.D. Sample I.D.	S R	Ž	M M			11		O		.						
11221707	<b>1</b>	CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE RCE / COOL OTHER:		2	11-	U								7
H301787	<del>ተዳ</del>	1	S   S   S   S   S   S   S   S   S   S		29 9:00	<b>-</b>	1	<del></del>			-	<del> </del>				
1 Cell H - V	1	ť.	<del>                                     </del>		29 0'20	17	4	1	$\vdash$			+				
2 W B - V	15	ť.		1 N 3	27 9.50	1	1	1	-+		+	+	-		,	
1 C.90 D - V	۱ž	1	1		140 0 25	1.7	3	7		-	_	-	<del>                                     </del>			
< C.00 € - \C	ゖ	ti			11 9	11	5	1		_		<del> </del>				
6 CNO F - 17	IJ	竹	1 //		29 11: 25	17	J	Ĭ.		$\neg$	+	1	<b>1</b>		·	
7 00 G - V	V	li	U	1 1 7	29 , 2:5	<b>1</b>	y	1			1	1.				
8 Cul I-V	V	1	J	1 7 2	1 2:15	V	J	J								
9 Cul 3 - V	IJ	I.		1 1 7	29 2:50	J	j	1								
	L	Ľ		,												
PLEASE NOTE: Liability and Damages. Cerdina's liability and client's exclusive remedy for analyses. All claims including those for negligenos and any other cause whatsoever shall be	deeme	d wah	ved unless made in Willing an	of received by Cardinal within 3	30 days after completion of t	the applice	bia						-			, .
service. In no everá shall Cardinal be Rable for incidental or consequentel derrages, includ efficates or successors arising out of or related to the performance of services betsunder by	Cardin	Leg	rdiese of whether such claim	loss of use, or loss of profits in its based upon any of the abov	re stated resears or otherwi	eq.										
Ralinquished By: Date: 0/3	S R	7	rved By:	1 10.	Phone Re	it:	□ Ye			dd Pho						
Time: 9am	Z	И.	ICIL I	unson	REMARK	<b>S</b> :										
Relinquished By: Date:	1	ce	ved By:			•										
Time:	1															
Delivered By: (Circle One)	4		Sample Condit	tion CHECKED	ey:											
Sampler - UPS - Bus - Other:	ď	D	Cool intact	(In tiage)	<del>   </del>											
Sampler - UPS - Dus - Other:	7	<u>~</u>	No N		1								-			



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Seas Constitution		ANALYSIS REQUEST
Project Manager: E. J	P.O. #:	
Address: LOI W III (NOIS	Company:	
City: 12 Lbos State: PM Zip: 86242	Attne	
Phone #: 2-2236 Fax #: 2-6949	Address	
Project #: C+ C Project Owner: J. Company	Cito: Q.	
Project Name: C+C Canatayan (NM-01)0012		
Project Location: Monument NM Sent 3	Phone #:	
Sampler Name: FLD : Con (Voloso Zano)	Fax#:	
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING	
(C)OMP. BRS MTER TER		
liahID ( SamnkaID (¥I≧I≶I≾		
Fab I.D. Sample I.D. Sample I.D. H301787	OTHER:	
10 Clo K - V Ji V	U 7/29 3:30 J U J	
11 Cook-V DIV	J 7/22 4:10 J V J	
IZ CLE M·V. DI V	1 7/29 4:40 3 0 0	
	<del>                                      </del>	
		<del></del>
PLEASE NOTE: Liability and Damages. Cerdinata liability and ofenite exclusive remedy for any claim arteing whether based in centre enables. All claims including those for negligence and any other cause whatscover shall be deemed walved unless made in writing a	nd received by Cardinal within 30 days wher completion of the applicable	
service. In no event shall Cartinel be liebte for incidental or consequental damages, including without limitation, business interruptions efficies or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daily	is based upon any of the above stated research or otherwise.	
Relinquished By: Date: 7/30 Received By:	Phone Result:	
Zd who Time: 9 cm 40al o	REMARKS:	
Relinquished By: Date: Received By:	- Company of the Comp	
Time:		
Delivered By: (Circle One) Sample Cond	tion CHECKEDBY:	
Cool Instact	- (striction)/	
Sampler - UFS - Bus - Other.	o GV	

† C=-tinal cannot accept verbal changes. Please fax written changes to (575) 393-2336



August 28, 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 07/30/13 9:00.

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.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & 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: 28-Aug-13 14:42

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

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL H-1	H301788-01	Soil	29-Jul-13 06:45	30-Jul-13 09:00
CELL H - 2	H301788-02	Soil	29-Jul-13 07:10	30-Jul-13 09:00
CELL H - 3	H301788-03	Soil	29-Jul-13 08:00	30-Jul-13 09:00
CELL H-4	H301788-04	Soil	29-Jul-13 08:25	30-Jul-13 09:00

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demogas. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whetevoewer 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 libited for including those for regigence and any other cause whetevoewer 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 limited 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. Kuna



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

## CELL H - 1 H301788-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborate	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3073104	AP	31-Jul-13	4500-Cl-B	
pH*	7.96	0.100	pH Units	1	3080702	AP	07-Aug-13	9045	
Phenois	ND	0.5 1	ng/kg dry wt.	1	3082704	CK	14-Aug-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3080509	AP	05-Aug-13	375.4	
Radionuclides									SUB-RS
Radium-226	$\boldsymbol{0.7 \pm 0.2}$	0.50	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Radium-228	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Total Radium	$0.7 \pm 0.2$	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Petroleum Hydrocarbons by GC FID	)								
GRO C6-C10	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
DRO >C10-C28	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctane		90.2 %	65.2-	140	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctadecane		116%	63.6-	154	3073105	MS	01-Aug-13	8015B	
Polychlorinated Biphenyls by EPA M	ethod 8082								SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
Surrogate: Tetrachloro-meta-xylene		91.8%	35-1	40	3082702	C <b>K</b>	01-Aug-13	8082	

### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Lability and Damages. Cordinal's liability and clients's exclusive remedy for any clean arising, whether besed in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whotspoewer shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the performance of the services hereunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuna



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

### CELL H - 1 H301788-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA	Method 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Methylene chloride*	ND	1.00	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
l,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	<b>826</b> 0	
Benzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
foluene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2-Trichloroethane*	ND	0.100	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3080504	MS	05-Aug-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Surrogate: Dibromofluoromethane		99.3 %	70	130	3080504	MS	05-Aug-13	8260	
Surrogate: Toluene-d8		100 %	7 <b>0</b>	130	3080504	MS	05-Aug-13	8260	
Surrogate: 4-Bromofluorobenzene		102 %	<i>70</i>	130	3080504	MS	05-Aug-13	8260	
Semivolatile Organic Compounds by	GCMS								
Naphthalene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
l-Methyln aphthalene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	

### Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's lebility and client's exclusive remedy for any claim arising, whether based in contract or bort, shell be limited to the amount paid by client for analyses. All claims, including those for registeroe and any other causes whatsoever shell be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shell Cardinal pe liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidienties, efficiency or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients based upon any of the active stated reasons or otherwise. Results related above. This report shell not be reproduced accept in full with written approved of Cardinal Laboratories.

Celey D. Kuna

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

## CELL H - 1 H301788-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by	GCMS								
Acenaphthene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3072902	MS	02-Aug-13	8270C	
Surrogate: Nitrobenzene-d5		53.2 %	16.1	-91.8	3072902	MS	02-Aug-13	827 <b>0</b> C	
Surrogate: 2-Fluorobiphenyl		64.2 %	27.2	-92.9	3072902	MS	02-Aug-13	8270C	
Surrogate: Terphenyl-dl4		81.8%	21.3	-96.1	3072902	MS	02-Aug-13	8270C	
		C	عدا ۲ ما	4					
	•	Green Analy	ucai Lab	oratories					

ND	0.0100 mg/kg dry	1	B308096	KLJ	09-Aug-13	EPA9012 B
99.1	%	1	B308009	JGS	31-Jul-13	EPA160.3
ND	0.800 mg/kg dry	4	B308053	ABP	06-Aug-13	4500-F- C
13.6	0.400 mg/kg dry	4	B308085	KLJ	08-Aug-13	EPA353.2
MD	0.160 mg/kg dry	8	B308055	KI.J	06-Aug-13	EPA353.2
	99.1 ND 13.6	99.1 %  ND 0.800 mg/kg dry  13.6 0.400 mg/kg dry	99.1 % 1  ND 0.800 mg/kg dry 4  13.6 0.400 mg/kg dry 4	99.1 % 1 B308009  ND 0.800 mg/kg dry 4 B308053 13.6 0.400 mg/kg dry 4 B308085	99.1 % 1 B308009 JGS  ND 0.800 mg/kg dry 4 B308053 ABP	99.1 % 1 B308009 JGS 31-Jul-13  ND 0.800 mg/kg dry 4 B308053 ABP 06-Aug-13  13.6 0.400 mg/kg dry 4 B308085 KLJ 08-Aug-13

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jubility and Damages. Cardinal's lebility and clem's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount celd by client for enabyses. All cleims, including those for registerce 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 ce liable for including, without limitation, bushess 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 semples identified above. This report shall not be reproduced except in full with written approved of Cardinal 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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 1 H301788-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Analy	ytical Labo	oratories					
Total Metals by ICP									
Iron	1890	5.00	mg/kg dry	100	B308151	JGS	15-Aug-13	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.731	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Barium	12.8	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Cadmium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Chromium	2.22	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Copper	0.828	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Lead	2.20	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Manganese	26.1	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Uranium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Zinc	6.64	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.0980	mg/kg dry	490	B308022	JGS	02-Aug-13	EPA7471	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Libblity and Damages. Cardinal's lebility and client's exclusive remedy for any claim arising, whether based in contract or tont, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspews 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 libble for including, 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 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 accept in full with written approval of Cardinal Laboratories.

Celeg & Keine



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 2 H301788-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborato	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3073104	AP	31-Jul-13	4500-Cl-B	
pH*	8.11	0.100	pH Units	1	3080702	AP	07-Aug-13	9045	
Phenois	ND	0.5 r	ng/kg dry wt.	1	3082704	CK	14-Aug-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3080509	AP	05-Aug-13	375.4	
Radionuclides									SUB-RS
Radium-226	ND	0.50	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Radium-228	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Total Radium	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Petroleum Hydrocarbons by GC FID									
GRO C6-C10	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
DRO >C10-C28	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctane		90.1 %	65.2-	140	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctadecane		117%	63.6-	154	3073105	MS	01-Aug-13	8015B	
Polychlorinated Biphenyls by EPA Method 8	082								SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
Surrogate: Tetrachloro-meta-xylene		70.4 %	35-1	40	3082702	CK	01-Aug-13	8082	

#### Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jability and Demogais. Cardinal's liability and client's exclusive remisely for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for registeroe and any other cause whatsprewer 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 correspounded demagas, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients besend upon any of the above stated resource or otherwise. Results related with the samples between all not be reproduced except in full with writine approved of Cardinal Euboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 2 H301788-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories					
Volatile Organic Compounds by EPA Metho	d 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Methylene chloride*	ND	1.00	mg/kg	50	3080504	MS	05-Aug-13	8260	В
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,1-Trichloroeth ane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3080504	MS	05-Aug-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2,2-Tetrachloroethane <sup>a</sup>	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Surrogate: Dibromofluoromethane		99.6 %	70-	130	3080504	MS	05-Aug-13	8260	
Surrogate: To <b>luene-d8</b>		100 %	70-	130	3080504	MS	05-Aug-13	8260	
Surrogate: 4-Bromoftworobenzene		103 %	7 <b>0</b>	130	3080504	MS	05-Aug-13	8260	
Semivolatile Organic Compounds by GCMS									
Naphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jidblifty and Damagies. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspower shall be deemed washed unless made in writing and received by Cardinal writin thinty (30) days after completion of the applicable service. In no event shall Cardinal pe liabile for incidental or consequential demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliation or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients bessed upon any of the above stated resource or otherwise. Results related above. This control is not provided except in full with writine approved of Cardinal Laborationies.

Celeg D. Kuna

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 Project Manager: Eddie Seay

28-Aug-13 14:42

Fax To: (505) 392-6949

CELL H - 2 H301788-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Semivolatile Organic Compounds by GO	CMS								
Acenaphthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Surrogate: Nitrobenzene-d5		69.3 %	16.1-	91.8	3072902	MS	05-Aug-13	8270C	
Surrogate: 2-Fluorobiphenyl		64.1 %	27.2-	92.9	3072902	MS	05-Aug-13	8270C	
Surrogate: Terphenyl-dl4		68.7 %	21.3-	96.1	3072902	MS	05-Aug-13	8270C	

## **Green Analytical Laboratories**

General Chemistry							
Cyanide, Total	ND	0.0100 mg/kg dry	1	B308096	KLJ	09-Aug-13	EPA9012 B
% Dry Solids	99.5	%	1	B308009	JGS	31-Jul-13	EPA160.3
Soluble (DI Water Extraction)							
Fluoride	ND	0.800 mg/kg dry	4	B308053	ABP	06-Aug-13	4500-F- C
Nitrate/Nitrite as N	5.59	0.400 mg/kg dry	4	B308085	KLJ	08-Aug-13	EPA353.2
Nitrite as N	ND	0.160 mg/kg dry	8	B308055	KLJ	06-Aug-13	EPA353.2

#### Cardinal Laboratories

\*=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 claims, including those for regigence and any other cause whatsoever shall be deemed worked 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 includental or corresponding demonstration, 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 besed upon any of the above stated resource 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.

Celeg D. Kuna



**Eddie Seay Consulting** 

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H-2 H301788-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
		Green Anal	ytical Labo	ratories									
Total Metals by ICP													
Iron	2290	5.00	mg/kg dry	100	B308151	JGS	15-Aug-13	EPA6010 B					
Total Metals by ICPMS													
Arsenic	0.795	0.500	mg/kg dry	1000	B308045	<b>J</b> GS	07-Aug-13	6020 A					
Barium	17.5	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Cadmium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Chromium	2.64	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Copper	0.936	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Lead	2.52	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Manganese	30.1	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Selenium	ND	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Silver	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Uranium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Zinc	5.23	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A					
Total Mercury by CVAA													
Mercury	ND	0.0980	mg/kg dry	490	B308022	JGS	02-Aug-13	EPA7471					

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Damages. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analysis. All claims, including those for negligence and 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 pe liable for inclaimstal or consequential damages, including, without limitation, business informance of the services hereunder by Cardinal, regardless of whather such claims is based upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with writine approved of Cardinal Laboratories.

Celay D. Keine



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 3 H301788-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3073104	AP	31-Jul-13	4500-CI-B	
pH*	7.66	0.100	pH Units	1	3080702	AP	07-Aug-13	9045	
Phenols	ND	0.5 n	ng/kg dry wt.	1	3082704	CK	14-Aug-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3080509	AP	05-Aug-13	375.4	
Radionuclides									SUB-RS
Radium-226	ND	0.50	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Radium-228	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Total Radium	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Petroleum Hydrocarbons by GC FID									
GRO C6-C10	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
DRO >C10-C28	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctane		91.3 %	65.2-	140	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctadecane		119 %	63.6-	15 <b>4</b>	3073105	MS	01-Aug-13	8015B	
Polychlorinated Biphenyls by EPA Method 808	32								SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3082702	CK.	01-Aug-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
Surrogate: Tetrachloro-meta-xylene		88.2 %	35-1	40	3082702	CK	01-Aug-13	8082	

## Cardinal Laboratories

PLEASE NOTE: Liability and Demogas. Cordinal's liability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardhal within thirty (30) days after completion of the applicable service. In no event shall Cardhall be limited to the applicable service. In no event shall Cardhall be for incidental or corresponding demogas, 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 haveunder by Cardhal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardhael undoorstonies.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 3 H301788-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA Method	8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Methylene chloride*	ND	1.00	mg/kg	50	3080504	MS	05-Aug-13	8260	В
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Tetrachloroeth en e*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2-Trichloroethane	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3080504	MS	05-Aug-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Surrogate: Dibromofluoromethane		97.7 %	70-	130	3080504	MS	05-Aug-13	8260	
Surrogate: Toluene-d8		100 %	70-	130	3080504	MS	05-Aug-13	8260	
Surrogate: 4-Bromofluorobenzene		104 %	7 <b>0</b> -	130	3080504	MS	05-Aug-13	8260	
Semivolatile Organic Compounds by GCMS								11444	
Naphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
2-Methylnaphthaiene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	

## Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: ... Idollity and Damages. Cardinal's lebblity and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for neglegance 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 inclaims 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 claims is besed 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 & Kuna



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 3 H301788-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories					
Semivolatile Organic Compounds	by GCMS								
Acenaphthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Phen anthrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Tuoranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
yrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[b]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[k]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
ndeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Surrogate: Nitrobenzene-d5		55.9 %	16.1-	91.8	3072902	MS	05-Aug-13	8270C	
Surrogate: 2-Fluorobiphenyl		55.3 %	27.2-	92.9	3072902	MS	05-Aug-13	8270C	
Surrogate: Terphenyl-dl4		86.8 %	21.3-	96.1	3072902	MS	05-Aug-13	8270C	

# Green Analytical Laboratories

General Chemistry							
Cyanide, Total	ND	0.0100 mg/kg dry	1	B308096	KLJ	09-Aug-13	EPA9012 B
% Dry Solids	99.4	%	1	B308009	JGS	31-Jul-13	EPA160.3
Soluble (DI Water Extraction)							
Fluoride	ND	0.800 mg/kg dry	4	B308053	ABP	06-Aug-13	4500-F- C
Nitrate/Nitrite as N	4.02	0.400 mg/kg dry	4	B308085	KLJ	08-Aug-13	EPA353.2
Nitrite as N	ND	0.160 mg/kg dry	8	B308055	KLJ	06-Aug-13	EPA353.2

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE VOTE: Libbility 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 calcid by client for analyses. All claims, including those for regigence 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 ce liable for incidental or corresponding days, 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 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 Cardinal Laboratories.

Celeg & Kune



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL H - 3 H301788-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Analyt	tical Lab	oratories					
Total Metals by ICP									
T	2060	5.00	ma/ka dry	100	B308151	IGS	15 Aug 12	6946010 B	

Iron	2060	5.00	mg/kg dry	100	B308151	JGS	15-Aug-13	EPA6010 B
Total Metals by ICPMS		· · · · · · · · · · · · · · · · · · ·						
Arsenic	0.655	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Barium	11.8	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Cadmium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Chromium	2.02	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Copper	0.700	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Lead	1.68	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Manganese	24.8	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Silver	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Uranium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Zinc	2.27	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A
Total Mercury by CVAA			· · - <b></b>					
Mercury	ND	0.0960	mg/kg dry	480	B308022	JGS	02-Aug-13	EPA7471

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount policy client for analyses. All claims, including those for negligence and any other cause whetspower shall be deemed washed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pe liabile for incidental or correspounded demages, including, without limitation, business information, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated response or otherwise. Results related above, this expression of contract Laboratories.

Celey & Keine



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

# CELL H - 4 H301788-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborato	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3073104	AP	31-Jul-13	4500-Cl-B	
pH*	8.43	0.100	pH Units	1	3080702	AP	07-Aug-13	9045	
Phenois	ND	0.5	ng/kg dry wt.	1	3082704	CK	14-Aug-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3080509	AP	05-Aug-13	375.4	
Radionuclides									SUB-RS
Radium-226	ND	0.50	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Radium-228	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Total Radium	ND	0.80	pCi/gram	1	3082705	CK	27-Aug-13	GammaRay HPGE	
Petroleum Hydrocarbons by GC FID									
GRO C6-C10	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
DRO >C10-C28	ND	10.0	mg/kg	1	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctane		91.4 %	65.2-	140	3073105	MS	01-Aug-13	8015B	
Surrogate: 1-Chlorooctadecane		115 %	63.6-	154	3073105	MS	01-Aug-13	8015B	
Polychlorinated Biphenyls by EPA Method	8082								SUB-SS
PCB 1016	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3082702	CK	01-Aug-13	8082	
Surrogate: Tetrachloro-meta-xylene		81.9 %	35-1-	40	3082702	CK	01-Aug-13	8082	

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cold by client for analysis. All claims, including those for negligence and any ofher cause whetherewer shall be diseased 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 correspondently including, without limitation, business informance on the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall most negrodused except in full with writine approved of Cardinal Laboratories.

Celey D. Kuna



**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

28-Aug-13 14:42

Fax To: (505) 392-6949

# CELL H-4 H301788-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories	-				
Volatile Organic Compounds by EPA Meth	od 8260B								
Vinyl chloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Methylene chloride*	ND	1.00	mg/kg	50	3080504	MS	05-Aug-13	8260	I
1,1-Dichloroeth ane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3080504	MS	05-Aug-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3080504	MS	05-Aug-13	8260	
1,1,2,2-Tetrachioroethane*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3080504	MS	05-Aug-13	8260	
Surrogate: Dibromofluoromethane		97.9 %	70-1	130	3080504	MS	05-Aug-13	8260	
Surrogate: Toluene-d8		101 %	70-	130	3080504	MS	05-Aug-13	8260	
Surrogate: 4-Bromofluorobenzene		103 %	7 <b>0</b> - 1	130	3080504	MS	05-Aug-13	8260	
Semivolatile Organic Compounds by GCM	s								
Naphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	

## Cardinal Laboratories

\*=Accredited Analyte

FLEASE NOTE: Jebility and Damages. Cardinal's lebility and client's exclusive remedy for any claim arising, whether besid in contract or tont, 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 limited to the contract or tone analysis of the services hereunder by Cardinal or corresquential demages, 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey 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/

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

Fax To: (505) 392-6949

Reported: 28-Aug-13 14:42

# CELL H - 4 H301788-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Semivolatile Organic Compounds b	y GCMS								
Acenaphthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
luorene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
henanthrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
luoranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
yrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
enzo[b]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Senzo[k]flouranthene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
ndeno{1,2,3-cd}pyrene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3072902	MS	05-Aug-13	8270C	
urrogate: Nitrobenzene-d5		40.1 %	16.1-	91.8	3072902	MS	05-Aug-13	8270C	
urrogate: 2-Fluorobiphenyl		42.8 %	27.2-	92.9	3072902	MS	05-Aug-13	8270C	
Surrogate: Terphenyl-dl4		70.4 %	21.3-	96.1	3072902	MS	05-Aug-13	8270C	

# **Green Analytical Laboratories**

General Chemistry							
Cyanide, Total	ND	0.0100 mg/kg dry	1	B308096	KLJ	09-Aug-13	EPA9012 B
% Dry Solids	99.4	%	1	B308009	JGS	31-Jul-13	EPA160.3
Soluble (DI Water Extraction)							
Fluoride	ND	0.800 mg/kg dry	4	B308053	ABP	06-Aug-13	4500-F- C
Nitrate/Nitrite as N	6.36	0.400 mg/kg dry	4	B308085	KLJ	08-Aug-13	EPA353.2
Nitrite as N	ND	0.160 mg/kg dry	8	B308055	KLJ	06-Aug-13	EPA353.2

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and dient's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regigence 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 libite for incidental or corsequential damages, including, without limitation, business interruptions, loss of use, or 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kuna



Eddie Seay Consulting

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

Reported: 28-Aug-13 14:42

601 W. Illinois Hobbs NM, 88242

Mercury

Project Number: C & C LANDFARM

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL H - 4 H301788-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories			<u> </u>		
Total Metals by ICP									
Iron	2000	5.00	mg/kg dry	100	B308151	JGS	15-Aug-13	EPA6010 B	
Total Metals by ICPMS									
Arsenic	0.638	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Barium	12.2	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Cadmium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Chromium	1.68	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Copper	0.592	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Lead	1.77	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Manganese	20.1	0.500	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Selenium	ND	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Silver	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Uranium	ND	0.100	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Zinc	2.28	1.00	mg/kg dry	1000	B308045	JGS	07-Aug-13	6020 A	
Total Mercury by CVAA									

0.0980 mg/kg dry

B308022

02-Aug-13

EPA7471

ND

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount baid by client for analysiss. All claims, including those for regigence and any other cause whatsoever shall be deemed warved 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 demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcladeries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients based upon any of the above stated resource or otherwise. Results related who to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



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

28-Aug-13 14:42

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 3073104 - 1:4 DI Water										
Blank (3073104-BLK1)				Prepared &	Analyzed:	31-Jul-13				
Chloride	ND	16.0	mg/kg							
LCS (3073104-BS1)				Prepared &	Analyzed:	31-Jul-13				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3073104-BSD1)				Prepared &	Analyzed:	31-Jul-13				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Blank (3080509-BLK1) Sulfate	ND	10.0	mg/kg	Prepared &	Analyzed:	05-Aug-13				
Sulfate	ND	10.0	mg/kg							
LCS (3080509-BS1)					Analyzed:					
Sulfate	21.2	10.0	mg/kg	20.0		106	80-120			
LCS Dup (3080509-BSD1)				Prepared &	Analyzed:	05-Aug-13				
Sulfate	20.4	10.0	mg/kg	20.0		102	80-120	3.99	20	
Batch 3080702 - NO PREP										
LCS (3080702-BS1)				Prepared &	Analyzed:	07-Aug-13				
pH	7.07		pH Units	7.00		101	90-110			
Duplicate (3080702-DUP1)	Sou	ırce: H301786	3-01	Prepared &	Analyzed:	07-Aug-13				
pH	8.12	0.100	pH Units		7.96			1.99	20	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. 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 claims, including those for regigence and any other dauge whatsoever shall be deemed waved 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 claims is besend upon any of the above stated resoons or otherwise. Results related why to the samples identified above. This report shall not be reproduced except in full with writing approved of Cardinal Laboratories.

Celey D. Kuna



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

Project Number: C & C LANDFARM

Project Manager: Eddie Seay Fax To: (505) 392-6949 Reported: 28-Aug-13 14:42

# Inorganic Compounds - Quality Control

## **Cardinal Laboratories**

		Reporting	1.	Spike	Source	A/DEIG	%REC	nnn.	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3082704 - General Prep										
Blank (3082704-BLK1)				Prepared &	Analyzed:	14-Aug-13	i			
Phenols	ND	0.5	mg/kg dry							
			wt.							
LCS (3082704-BS1)				Prepared &	Analyzed:	14-Aug-13	l			
Phenois	0.4		mg/kg	0.400		97.5	70-130			
Matrix Spike (3082704-MS1)	Sou	rce: H30178	3-01	Prepared &	Analyzed:	14-Aug-13	l			
Phenois	3.9		mg/kg	4.08	0.0	96.5	<b>7</b> 0-130			· · · · · · · · · · · · · · · · · · ·
Matrix Spike Dup (3082704-MSD1)	Sou	rce: H30178	3-01	Prepared &	Analyzed:	14-Aug-13				
Phenols	4.0		mg/kg	4.08	0.0	97.7	<b>7</b> 0-1 <b>3</b> 0	1.24	20	

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Demoges. Cardinal's liability and client's exclusive remedy for any dain arising, whether based in contract or tort, shall be limited to the amount poid by client for analyses. All claims, including those for negligence and any ofter causes 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 inclaimate in no event shall Cardinal be liable for inclaimate or consequential demoges, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidering, efficiency or aucressors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such climits besend upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keina



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

28-Aug-13 14:42

Fax To: (505) 392-6949

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3073105 - General Prep - Organics					····					
Blank (3073105-BLK1)				Prepared &	Analyzed:	31-Jul-13				
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	40.8		mg/kg	50.0		81.6	65.2-140			
Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105	63.6-154			
LCS (3073105-BS1)				Prepared &	Analyzed:	31-Jul-13				
GRO C6-C10	179	10.0	mg/kg	200		89.5	66.4-124			
DRO > C10-C28	182	10.0	mg/kg	200		91.1	61.6-132			
Total TPH C6-C28	361	10.0	mg/kg	400		90.3	69.7-122			
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.9	65.2-140			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	63.6-154			
LCS Dup (3073105-BSD1)				Prepared &	: Analyzed:	31-Jul-13				
GRO C6-C10	178	10.0	mg/kg	200		89.2	66.4-124	0.282	23.4	
DRO >C10-C28	187	10.0	mg/kg	200		93.5	61.6-132	2.60	23.1	
Total TPH C6-C28	365	10.0	mg/kg	400		91.4	69.7-122	1.18	20.6	
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	65.2-140			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	63.6-154			

Cardinal Laboratories \*=Accredited Analyte

\*\*REASE NOTE: Usblitty and Damages. Cardinal's liability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for regigence and 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 demages, including, without limitation, business information, loss of use, or 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 claims is bread 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 writine approved of Cardinal Lipotratories.

Celey & Kuna



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

28-Aug-13 14:42

Fax To: (505) 392-6949

#### Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3082702 - 3550										
Blank (3082702-BLK1)				Prepared: 3	31-Jul-13 A	nalyzed: 01	l-Aug-13			
PCB 1016	ND	2.00	ug/kg							
PCB 1221	ND	2.00	ug/kg							
PCB 1232	ND	2.00	ug/kg							
PCB 1242	ND	2.00	ug/kg							
PCB 1248	ND	2.00	ug/kg							
PCB 1254	ND	2.00	ug/kg							
PCB 1260	ND	2.00	ug/kg							
Surrogate: Tetrachloro-meta-xylene	7.51		ug/L	10.0		75.1	35-140			
LCS (3082702-BS1)				Prepared: 3	31-Jul-13 A	nalyzed: 01	l-Aug-13			
PCB 1016	94.9		ug/L	100		94.9	<b>40-13</b> 0			
PCB 1242	ND	2.00	ug/kg				40-130			
PCB 1254	ND	2.00	ug/kg				40-130			
PCB 1260	98.5		ug/L	100		98.5	40-130			
Surrogate: Tetrachloro-meta-xylene	6.34		ug/L	10.0		63.4	35-140		-	
Matrix Spike (3082702-MS1)	Source	ce: H301788-	-01	Prepared:	31-Jul-13 A	nalyzed: 01	l-Aug-13			
PCB 1016	93.8		ug/L	100	ND	93.8	40-130			
PCB 1242	ND	2.00	ug/kg		ND		40-130			
PCB 1254	ND	2.00	ug/kg		ND		40-130			
PCB 1260	102		ug/L	100	ND	102	40-130			
Surrogate: Tetrachloro-meta-xylene	6.76		ug/L	10.0		67.6	35-140			
Matrix Spike Dup (3082702-MSD1)	Source	ce: H301788-	-01	Prepared:	31-Jul-13 A	nalyzed: 0	l-Aug-13			
PCB 1016	102		ug/L	100	ND	102	40-130	8.38	30	
PCB 1242	ND	2.00	ug/kg		ND		40-130		30	
PCB 1254	ND	2.00	ug/kg		ND		<b>40-13</b> 0		30	
PCB 1260	97.8		ug/L	100	ND	97.8	40-130	4.20	30	
Surrogate: Tetrachloro-meta-xylene	6.94		ug/L	10.0		69.4	35-140			

#### Cardinal Laboratories \*=Accredited Analyte

REASE VOTE: Jubility and Damagus. Cardina's labbility and clients's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsprever shall be deemed walved unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited for inclaimful demagus, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, efficiency or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whather such clients based upon any of the above stated measures or otherwise. Results relate into the services berefiled above. This report shall not be reproduced except in full with writing approved of Cardinal Liboratories.

Celey D. Keine

%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

28-Aug-13 14:42

Fax To: (505) 392-6949

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

#### **Cardinal Laboratories**

Reporting

		reporting		Spike	Source		FOREC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3080504 - Volatiles										
Blank (3080504-BLK1)				Prepared &	Analyzed:	05-Aug-13				
Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	0.286	0.0500	mg/kg							i
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	0.496		mg/kg	0.500		99.2	70-130			
Surrogate: Toluene-dB	0.509		mg/kg	0.500		102	7 <b>0</b> -130			
Surrogate: 4-Bromofluorobenzene	0.508		mg/kg	0.500		102	70-130			
LCS (3080504-BS1)				Prepared &	Analyzed:	05-Aug-13				
Vinyl chloride	0.408	0.0500	mg/kg	0.400		102	70-130			
1,1-Dichloroethene	0.508	0.0500	mg/kg	0.400		127	70-130			
Methylene chloride	0.770	0.0500	mg/kg	0.400		192	<b>7</b> 0-1 <b>3</b> 0			Е
1,1-Dichloroethane	0.469	0.0500	mg/kg	0.400		117	70-130			
Chloroform	0.503	0.0500	mg/kg	0.400		126	70-130			
Carbon tetrachloride	0.464	0.0500	mg/kg	0.400		116	70-130			
1,1,1-Trichloroethane	0.406	0.0500	mg/kg	0.400		102	70-130			

## Cardinal Laboratories

\*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remarkly for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for regigence and any other cause whatsoever shall be deemed walved unless made in withing and received by Cardhall within thirty (30) days after completion of the applicable service. In no event shall Cardhall be liable for incidental or consequential demages, including, without limitation, business infarmantions, ioss of use, or loss of profits incurred by client, its subcidenties, affiltedes or successors arising out of or related to the performance of the services harvunder by Cardhall, regardless of whather such clients bessed upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This

Celeg D. Kuna



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

28-Aug-13 14:42

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 3080504 - Volatiles										
LCS (3080504-BS1)				Prepared &	Analyzed	05-Aug-13				
Benzene	0.431	0.0500	mg/kg	0.400		108	70-130			
1,2-Dichloroethane	0.439	0.0500	mg/kg	0.400		110	70-130			
Trichloroethene	0.442	0.0500	mg/kg	0.400		110	70-130			
Toluene	0.418	0.0500	mg/kg	0.400		104	70-130			
Tetrachloroethene	0.440	0.0500	mg/kg	0.400		110	70-130			
1,1,2-Trichloroethane	0.407	0.0500	mg/kg	0.400		102	70-130			
1,2-Dibromoethane	0.402	0.0500	mg/kg	0.400		100	70-130			
Ethylbenzene	0.416	0.0500	mg/kg	0.400		104	70-130			
m-p Xylenes	0.807	0.100	mg/kg				70-130			
o-Xylene	0.396	0.0500	mg/kg	0.400		99.0	70-130			
Total Xylenes	1.20	0.150	mg/kg	1.20		100	70-130			
1,1,2,2-Tetrachloroethane	0.402	0.0500	mg/kg	0.400		100	<b>7</b> 0-130			
Naphthalene	0.391	0.0500	mg/kg	0.400		97.8	70-130			
Surrogate: Dibromofluoromethane	0.493		mg/kg	0.500		98.6	70-130			
Surrogate: Toluene-d8	0.495		mg/kg	0.500		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.507		mg/kg	0.500		101	70-130			
LCS Dup (3080504-BSD1)				Prepared &	Analyzed:	05-Aug-13				
Vinyl chloride	0.370	0.0500	mg/kg	0.400		92.5	70-130	9.79	20	
1,1-Dichloroethene	0.469	0.0500	mg/kg	0.400		117	70-130	7.81	20	
Methylene chloride	0.744	0.0500	mg/kg	0.400		186	70-130	3.42	20	
1,1-Dichloroethane	0.446	0.0500	mg/kg	0.400		112	70-130	4.92	20	
Chloroform	0.490	0.0500	mg/kg	0.400		123	<b>7</b> 0-130	2.53	20	
Carbon tetrachloride	0.438	0.0500	mg/kg	0.400		110	70-130	5.63	20	
1,1,1-Trichloroethane	0.398	0.0500	mg/kg	0.400		99.4	70-130	2.10	20	
Benzene	0.412	0.0500	mg/kg	0.400		103	70-130	4.55	20	
1,2-Dichloroethane	0.425	0.0500	mg/kg	0.400		106	70-130	3.20	20	
Trichloroethene	0.428	0.0500	mg/kg	0.400		107	70-130	3.18	20	
Toluene	0.391	0.0500	mg/kg	0.400		97.7	70-130	6. <b>7</b> 0	20	
Tetrachloroethene	0.423	0.0500	mg/kg	0.400		106	70-130	4.01	20	
1,1,2-Trichloroethane	0.407	0.0500	mg/kg	0.400		102	70-130	0.0614	20	
1,2-Dibromoethane	0.399	0.0500	mg/kg	0.400		99.7	70-130	0.767	20	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Demoges. Cardinel's liability and client's exclusive remedy for any clem arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal pe liable for including, without limitation, business interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, efflicities or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients based upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Liaboratories.

Celey D. Kuna



**Eddie Seay Consulting** 

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

Reported:

601 W. Illinois

Project Number: C & C LANDFARM

28-Aug-13 14:42

Project Manager: Eddie Seay Hobbs NM, 88242

Fax To: (505) 392-6949

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

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Analyte	Kesuit	Lillit	CHIS		Rosuit	/utbc	THILL	NI D	Dallit	110003
Batch 3080504 - Volatiles										
LCS Dup (3080504-BSD1)				Prepared &	Analyzed:	05-Aug-13				
Ethylbenzene	0.390	0.0500	mg/kg	0.400		97.6	<b>7</b> 0-1 <b>3</b> 0	6.28	20	
m-p Xylenes	0.759	0.100	mg/kg				<b>7</b> 0-130	6.11	20	
p-Xylene	0.373	0.0500	mg/kg	0.400		93.3	<b>7</b> 0-130	5.85	20	
Total Xylenes	1.13	0.150	mg/kg	1.20		94.3	70-130	6.03	20	
1,1,2,2-Tetrachloroethane	0.385	0.0500	mg/kg	0.400		96.3	70-130	4.22	20	
Naphthalene	0.375	0.0500	mg/kg	0.400		93.6	<b>7</b> 0-130	4.32	20	
Surrogate: Dibromofluoromethane	0.503		mg/kg	0.500		101	70-130			
Surrogate: Toluene-d8	0.491		mg/kg	0.500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.501		mg/kg	0.500		100	70-130			

\*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Demages. Cardina's liability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed velved unless made in writing and received by Cardina's within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the contract or tort, shall be limited to the amount cald by client for analyses. All claims, 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 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 Cardinal Laboratories.

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

%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

28-Aug-13 14:42

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 3072902 - SW846-3510	,									
Blank (3072902-BLK1)				Prepared: 2	29-Jul-13 Aı	nalyzed: 02	-Aug-13			
Naphthalene	ND	0.040	mg/kg			•		*		
2-Methylnaphthalene	ND	0.040	mg/kg							
i-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acensphthene	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							
Jurrogate: Nitrobenzene-d5	1.35		mg/kg	2.00		67.4	16.1-91.8			•
Surrogate: 2-Fluorobiphenyl	1.49		mg/kg	2.00		74.5	27.2-92.9			
Surrogate: Terphenyl-dl4	1.82		mg/kg	2.00		91.0	21.3-96,1			
LCS (3072902-BS1)				Prepared: 2	29-Jul-13 Aı	nalyzed: 02	-Aug-13			
Naphthalene	0.396	0.040	mg/kg	0.500		79.2	5.46-157			
2-Methylnaphthalene	0.381	0.040	mg/kg	0.500		<b>7</b> 6.2	16.1-146			
Acenaphthylene	0.382	0.040	mg/kg	0.500		76.3	21.6-144			
Acenaphthene	0.387	0.040	mg/kg	0.500		77.3	27-143			
Fluorene	0.376	0.040	mg/kg	0.500		75.3	30.9-138			
Phenanthrene	0.390	0.040	mg/kg	0.500		78.0	38.6-149			
Anthracene	0.398	0.040	mg/kg	0.500		<b>7</b> 9.6	36.1-149			
Carbazole	0.387	0.040	mg/kg	0.500		77.5	29.8-144			

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Jability 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 claims, including those for regigence and any ofter cause whetherever 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 lieble for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidients, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is bessed upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approved of Cardinal Laboraturies.

Celey D. Keine

%REC



## Analytical Results For:

Eddie Seay Consulting

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

Source

Reported:

601 W. Illinois

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

28-Aug-13 14:42

RPD

Hobbs NM, 88242 Proje

Fax To: (505) 392-6949

Snike

## Semivolatile Organic Compounds by GCMS - Quality Control

#### **Cardinal Laboratories**

Reporting

		Reporting		Spike	Source		%REC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
atch 3072902 - SW846-3510										
.CS (3072902-BS1)				Prepared: 2	29-Jul-13 Aı	nalyzed: 02	2-Aug-13			
luoranthene	0.409	0.040	mg/kg	0.500		81.8	34.6-148			
yrene	0.388	0.040	mg/kg	0.500		77.7	24.8-154			
Benzo[a]anthracene	0.382	0.040	mg/kg	0.500		76.5	0-179			
hrysene	0.394	0.040	mg/kg	0.500		78.8	35.1-150			
Benzo[b]flouranthene	0.380	0.040	mg/kg	0.500		76.1	17.6-158			
senzo[k]flouranthene	0.404	0.040	mg/kg	0.500		80.8	10.6-169			
denzo[a]pyrene	0.392	0.040	mg/kg	0.500		78.4	2.25-166			
ndeno[1,2,3-cd]pyrene	0.424	0.040	mg/kg	0.500		84.8	0-181			
Dibenz[a,h]anthracene	0.416	0.040	mg/kg	0.500		83.1	2.49-1 <b>77</b>			
enzo[g,h,i]perylene	0.442	0.040	mg/kg	0.500		88.5	0-173			
'urrogate: Nitrobenzene-d5	0.378		mg/kg	0.500		75.6	16.1-91.8			
urrogate: 2-Fluorobiphenyl	0.366		mg/kg	0.500		73.2	27.2-92.9			
urrogate: Terphenyl-dl4	0.386		mg/kg	0.500		77. <b>3</b>	21.3-96.1			
.CS Dup (3072902-BSD1)				Prepared: 2	29-Jul-13 Aı	nalyzed: 02	?-Aug-13			
Naphthalene	0.409	0.040	mg/kg	0.500		81.7	5.46-157	3.12	6.7	
-Methylnaphthalene	0.387	0.040	mg/kg	0.500		77.5	16.1-146	1.58	8.99	
cenaphthylene	0.388	0.040	mg/kg	0.500		<b>77.7</b>	21.6-144	1.74	14.6	
cenaphthene	0.390	0.040	mg/kg	0.500		78.0	27-143	0.842	6.99	
luorene	0.381	0.040	mg/kg	0.500		76.2	30.9-138	1.19	13.9	
henanthrene	0.390	0.040	mg/kg	0.500		78.0	38.6-149	0.0128	14.6	
Anthracene	0.408	0.040	mg/kg	0.500		81.6	36.1-149	2.45	18.5	
Carbazole	0.399	0.040	mg/kg	0.500		79.9	29.8-144	3.09	23.4	
luoranthene	0.418	0.040	mg/kg	0.500		83.7	34.6-148	2.28	19.7	
yrene	0.409	0.040	mg/kg	0.500		81.8	24.8-154	5.14	23	
Benzo[a]anthracene	0.406	0.040	mg/kg	0.500		81.2	0-179	5.95	32.5	
Chrysene	0.391	0.040	mg/kg	0.500		78.2	35.1-150	0.785	19.4	
enzo[b]flouranthene	0.388	0.040	mg/kg	0.500		77.6	17.6-158	1.95	31.4	
enzo[k]flouranthene	0.398	0.040	mg/kg	0.500		79.5	10.6-169	1.54	44.6	
Benzo[a]pyrene	0.401	0.040	mg/kg	0.500		80.2	2.25-166	2.16	60.5	
ndeno[1,2,3-cd]pyrene	0.413	0.040	mg/kg	0.500		82.7	0-181	2.53	77	
Dibenzla, h lanthracene	0.410	0.040	mg/kg	0.500		82.0	2.49-177	1.41	63.3	

#### Cardinal Laboratories

\*=Accredited Analyte

RLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for registerious and 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 limited for including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims bessed upon any of the above stated resource or otherwise. Results relate visit to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboraturies.

Celey D. Keine

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

28-Aug-13 14:42

Project Manager: Eddie Seay

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 3072902 - SW846-3510

LCS Dup (3072902-BSD1)				Prepared: 29-Jul	d: 29-Jul-13 Analyzed: 02-Aug-13					
Benzo[g,h,i]perylene	0.430	0.040	mg/kg	0.500	86.0	0-173	2.88	77.4		
Surrogate: Nitrobenzene-d5	0.394		mg/kg	0.500	78.8	16.1-91.8				
Surrogate: 2-Fluorobiphenyl	0.380		mg/kg	0.500	76.0	27.2-92.9				
Surrogate: Terphenyl-dl4	0.412		mg/kg	0.500	82.4	21. <b>3-96.</b> 1				

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Liability and Demogras. Cardinal's liability and client's exclusive remedy for any data arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for registeroe and any other cause whetsoever shall be deemed wived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Cley D. Kuna



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

#### General Chemistry - Quality Control

## Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B308096 - Cyanide Preparation		·								
Blank (B308096-BLK1)				Prepared &	Analyzed:	09-Aug-13				
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B308096-BS1)				Prepared &	Analyzed:	09-Aug-13				
Cyanide, Total	0.0483	0.0100	mg/kg wet	0.0500		96.6	85-115			
LCS Dup (B308096-BSD1)				Prepared &	Analyzed:	09-Aug-13				
Cyanide, Total	0.0509	0.0100	mg/kg wet	0.0500	•	102	85-115	5.24	20	

Cardinal Laboratories \*=Accredited Analyte

REASE NOTE: Jubility and Demages. Cardina's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for registerice and any other cause whistoever 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 demages, including, without limitation, but limits on but less in the use, or loss of profits increased by client, in displaying a failure or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to 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 & Keena



Eddie Seay Consulting

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

Reported: 28-Aug-13 14:42

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

Fax To: (505) 392-6949

#### Soluble (DI Water Extraction) - Quality Control

# **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B308053 - General Prep - Wet Chem										
Blank (B308053-BLK1)				Prepared &	Analyzed:	06-Aug-13				
Fluoride	ND	0.200	mg/kg wet							
LCS (B308053-BS1)				Prepared &	Analyzed:	06-Aug-13				
Fluoride	0.948	0.200	mg/kg wet	1.00		94.8	85-115			
LCS Dup (B308053-BSD1)				Prepared &	: Analyzed:	06-Aug-13				
Fluoride	0.971	0.200	mg/kg wet	1.00		97.1	85-115	2.40	20	
Batch B308055 - General Prep - Wet Chem										
Blank (B308055-BLK1)				Prepared &	Analyzed:	06-Aug-13				
Nitrite as N	ND	0.160	mg/kg wet							
LCS (B308055-BS1)				Prepared &	Analyzed:	06-Aug-13				
Nitrite as N	2.12	0.080	mg/kg wet	2.00		106	75-125			
LCS Dup (B308055-BSD1)				Prepared &	Analyzed:	06-Aug-13				
Nitrite as N	2.31	0.080	mg/kg wet	2.00		115	75-125	8.30	20	
Batch B308085 - General Prep - Wet Chem										
Blank (B308085-BLK1)				Prepared &	Analyzed:	08-Aug-13				
Nitrate/Nitrite as N	ND	0.100	mg/kg wet				A10181	7.20.		
LCS (B308085-BS1)				Prepared &	: Analyzed:	08-Aug-13				
Nitrate/Nitrite as N	0.570	0.100	mg/kg wet	0.500		114	75-125			

Cardinal Laboratories \*=Accredited Analyte

\*\*REASE NOTE: Jability and Damages. Cardinal's liability and clients's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analysis. All claims, including those for negligence and any other cause whetiscever shall be deemed without unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal as liabile for incidental or corresponded demages, including, without limitation, business infarmuptions, loss of use, or loss of profits incurred by client, its subsidiaries, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients between upon any of the above stated resource or otherwise. Results related above, this employer is full with written approved of Cardinal Laboratories.

Celey D. Keine



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

#### Soluble (DI Water Extraction) - Quality Control

#### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308085 - General Prep - Wet Chem										

LCS Dup (B308085-BSD1)	Prepared & Analyzed: 08-Aug-13										
Nitrate/Nitrite as N	0.510	0.100 mg/kg wet	0.500	102	75-125	11.1	20				

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Jubility and Demages. Cardinel's liability and client's exclusive remedy for any clein arising, whether based in contract or tort, shell be limited to the amount peld by client for analyses. All cleims, including those for registerious and any other cause whistoever shell be deemed walved unless mode in writing and received by Cardinel within thirty (30) does after completion of the applicable service. In no event shell Cardinel pe liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinel, regardless of whether such clients beside upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shell not be reproduced except in full with writine approved of Cardinel Laboratories.

Celey D. Keine



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

28-Aug-13 14:42

Fax To: (505) 392-6949

## Total Metals by ICP - Quality Control

## **Green Analytical Laboratories**

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	15-Aug-13	1			
1.87	0.050	mg/kg dry							Bi
			Prepared &	Analyzed:	15-Aug-13	1			
4.01	0.050	mg/kg dry	4.00		100	85-115			
			Prepared &	Analyzed:	15-Aug-13	1			
4.11	0.050	mg/kg dry	4.00		103	85-115	2.59	20	
	1.87	1.87 0.050 4.01 0.050	1.87 0.050 mg/kg dry 4.01 0.050 mg/kg dry	Prepared &	Prepared & Analyzed:  1.87 0.050 mg/kg dry  Prepared & Analyzed:  4.01 0.050 mg/kg dry 4.00  Prepared & Analyzed:	Prepared & Analyzed: 15-Aug-13	Prepared & Analyzed: 15-Aug-13	Result   Limit   Units   Level   Result   %REC   Limits   RPD	Result   Limit   Units   Level   Result   %REC   Limits   RPD   Limit

Cardinal Laboratories \*=Accredited Analyte

\*\*RESE NOTE: Jubility and Demages. Cardinal's lability and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount cald by client for analyses. All claims, including those for negligence and any other cause whatsprewer 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 is labile for includental or consequential damages, including the contractions of the services between the contractions of the services for successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated resource or otherwise. Results related above. This without advances the first proportion of the source of Cardinal Laboratories.

Celey D. Kuna



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

28-Aug-13 14:42

Fax To: (505) 392-6949

## Total Metals by ICPMS - Quality Control

## **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B308045 - EPA 3050M										
Blank (B308045-BLK1)				Prepared: 0	06-Aug-13 A	nalyzed: 0	7-Aug-13			
Lead	0.0005	0.0005	mg/kg dry							B1
Barium	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Chromium	0.0020	0.0010	mg/kg dry							B1
Соррег	0.0002	0.0001	mg/kg dry							B1
Manganese	0.0007	0.0005	mg/kg dry							B1
Uranium	ND	0.0001	mg/kg dry							
Zinc	0.0094	0.0010	mg/kg dry							BI
Selenium	ND	0.0010	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
LCS (B308045-BS1)				Prepared: 0	06-Aug-13 A	nalyzed: 0	7-Aug-13			
Cadmium	0.0515	0.0001	mg/kg dry	0.0500		103	85-115			
Chromium	0.0510	0.0010	mg/kg dry	0.0500		102	85-115			
Соррет	0.0500	0.0001	mg/kg dry	0.0500		100	85-115			
Arsenic	0.0493	0.0005	mg/kg dry	0.0500		98.6	85-115			
Zinc	0.0589	0.0010	mg/kg dry	0.0500		118	80-120			
Lead	0.0514	0.0005	mg/kg dry	0.0500		103	85-115			
Silver	0.0505	0.0001	mg/kg dry	0.0500		101	85-115			
Manganese	0.0506	0.0005	mg/kg dry	0.0500		101	85-115			
Uranium	0.0501	0.0001	mg/kg dry	0.0500		100	85-115			
Barium	0.0501	0.0005	mg/kg dry	0.0500		100	85-115			
Selenium	0.247	0.0010	mg/kg dry	0.250		99.0	85-115			
LCS Dup (B308045-BSD1)				Prepared: 0	06-Aug-13 A	nalyzed: 0	7-Aug-13			
Uranium	0.0509	0.0001	mg/kg dry	0.0500		102	85-115	1.48	20	
Manganese	0.0494	0.0005	mg/kg dry	0.0500		98.9	85-115	2.38	20	
Lead	0.0502	0.0005	mg/kg dry	0.0500		100	85-115	2.40	20	
Arsenic	0.0537	0.0005	mg/kg dry	0.0500		107	85-115	8.48	20	
Silver	0.0512	0.0001	mg/kg dry	0.0500		102	85-115	1.51	20	
Selenium	0.257	0.0010	mg/kg dry	0.250		103	85-115	3.96	20	
Cadmium	0.0521	0.0001	mg/kg dry	0.0500		104	85-115	1.10	20	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive "emisidy for any claim arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All claims, including those for negligence and any other cause whatsnower 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 corresponded demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, efflicience or successors arising out of or "elated to the performance of the services hereunder by Cardinal, regardless of whether such clients bessed upon any of the above stated resources or otherwise. Results related above. The report shall not be reproduced except in full with written approved of Cardinal Liboraturies.

Celey D. Keine

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

## Total Metals by ICPMS - Quality Control

## **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308045 - EPA 3050M										
LCS Dup (B308045-BSD1)				Prepared: 0	6-Aug-13 A	Analyzed: 0	7-Aug-13			
Barium	0.0507	0.0005	mg/kg dry	0.0500	*****	101	85-115	1.21	20	
Chromium	0.0501	0.0010	mg/kg dry	0.0500		100	85-115	1.67	20	
Zinc	0.0596	0.0010	mg/kg dry	0.0500		119	80-120	1.19	20	
Copper	0.0497	0.0001	mg/kg dry	0.0500		99.4	85-115	0.593	20	

Cardinal Laboratories \*=Accredited Analyte

\*\*REASE 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 claims, including those for regigence and any other cause whatsoever shall be diseased washed unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or corresquential demages, recluding, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidicative, affiliates or accessors arising out of or eleted to the performance of the services hareunder by Cardinal, regardless of whether such claims to besent upon any of the above stated resources or otherwise. Results relate any to the samples identified above. This report shall not be reproduced except in full with writinal approved of Cardinal Laboratories.

Celey D. Keina



Eddie Seay Consulting

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

Reported:

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

28-Aug-13 14:42

Project Manager: Eddie Seay

Fax To: (505) 392-6949

#### **Total Mercury by CVAA - Quality Control**

## **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308022 - EPA 7471										
Blank (B308022-BLK1)				Prepared &	Analyzed:	02-Aug-13				
Mercury	ND	0.0002	mg/kg wet							
LCS (B308022-BS1)				Prepared &	Analyzed:	02-Aug-13				
Mercury	0.0021	0.0002	mg/kg wet	0.00200		107	85-115			
LCS Dup (B308022-BSD1)				Prepared &	Analyzed:	02-Aug-13				
Mercury	0.0022	0.0002	mg/kg wet	0.00200		110	85-115	2.07	20	

Cardinal Laboratories \*=Accredited Analyte

Celey D. Keine



#### **Notes and Definitions**

Z-01  $0.7 \pm 0.2$ Analysis subcontracted to SunStar Laboratories, Inc. SHR-SS Analysis subcontracted to Radiation Safety Engineering, Inc. SUB-RS Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories. GAL Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above В1 the concentration found in the method blank or less than the reporting limit. Analyte is found in the associated blank as well as in the sample (CLP B-flag). В Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD \*\* 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

\*=Accredited Analyte

RLEASE NOTIE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whatspewer shall be deemed watwed unless made in writing and received by Cardhall within thirty (30) days after completion of the applicable service. In no event shall Cardhall be for incidental or consequential demages, 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 Cardhall, 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 Cardhall Laboratories.

Celey D. Kune

Cardinal Laboratories



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240

(575) 393-2326 FAX (675) 393-2476																						
Company Name:		015	L	ing										· A	NAL	YSIS	RE	QUES	ST_			
Project Manager	Eddie Sean			- 1		P.C	). <b>#</b> :			· · · · · · · · · · · · · · · · · · ·												
Address: 1001 W Illingis					Сотрапу:							1										
City: Holdes State: NYM Zip: 98242						Attn:							Ì					ı				
Phone #: 2.2236 Fax #: 2. 6949						Address				] ]				- 1				1				
Project #: C+ C Project Owner: J. Cooper					city:																	
Project Name:	Ct.C Landform	CNA	1.	16	0012	Sta	te:		Zip:										1	- 1	- 1	
Project Location	M. M. Francisco :	Sul	_3	3	_	_	one	#:						.	. 1	1			Į	1		
Sampler Name:		(5 <sub>y</sub>		Ma	rietu	<u>J</u>	x #:					Ş			1	4	2		¥	- 1	7	
FOR LAB USE ONLY			F	, h	IATRIX	-	PRE	SERV	SAMPL	ING		2015	9	J	٤	7	1		7	- 3	5	. ,/
	,	(C)OMP	<u>م</u> ا	5 ~					1		×	)	-7	Aussin		ع ٠	.9	~	4	1	9	PR
Lab I.D.	Sample I.D.	၌	ă ş				ü	ار			BTEX	1	Calor	Ŋ	. 3	-	7	5	2	_		$\approx$
Lab I.D.	Sample I.D.	ğ	3 3			בין ק	BAS	8 2			1	TOH	Q	7	D	8	J	_2	4	W	·W	س
H301788		<b>E</b>	# CONTAINERS	WASTEWATER	SOIL	OTHER	ACIDVÉASE	KE/COOL OTHER:	DATE	TIME	عي ا		U		`				ı	1	1	
1	Cell H - 1	Ĭ.						j	7/29	6:45	一			=							_	
2	C-20 H-2	J	3					J	129	7:10							_					
3	Cell H-3	J	5		J			J	7/29	8:00												
Ų	all H-4		5 I	7	4			I	7/29	8: 25												
						$\perp$			<u> </u>								- 1					
		$\bot \bot$	4	$\perp$	$\perp \perp$			1.	ļ	<u> </u>	<u> </u>	ļ								,		
		-1-4	4	$\perp$		1	$\sqcup$	_	<u> </u>		<b> </b>											
		+	4		++	+		-	<b> </b>	<u> </u>		<u> </u>	ļ				<b> </b>				·	
	,	$+\!\!+\!\!\!+$	+	-	-++	+-		_								<u> </u>					,	
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusive remed	for any claim	arielna	whether	seed in cost	act or to	rt, shall	be limite	d to the amount p	aid by the client fo	r the	<u> </u>	<u> </u>				<u> </u>	L				
melyses. All deims includi sandos. In no event shall C	ing those for negligance and any other cause whatecover the arched be liable for incidental or consequental damages, inc	he deemed to ading without	mired Imitetic	uniess en en, bunins	ide in writing ia interruption	and rece vs. loss o	alved by of use, o	Cardina or loss of	within 30 days a profite incurred by	her completion of: dient, its subsidi	the applica latios,	ble										
Relinquished B	ing out of or related to the performance of services horeunds	by Cardinal,	egard	d By:	ther euch de	m is be	eed upo:	n any of	the above stated	Phone Re	94.	□ Ye	• 🛭	No	Add¶	Phone	#:					
8	7/3	<u>•</u>  /	n	AI.	•	N.		ιΛ	D A	Fax Resu REMARK		□ Ye	• 🗅			Fax#:	-					
اسلال		_44	$\mathcal{U}$	χJ	لي ر	W	$\mathcal{X}$	U	<b>67</b>	+												
Relinquished B			.oiVt	d By:																		
	Time:									1												
Delivered By: (Circle One)  Sample Condition CHECKED BY:  Gool Intact  Gainteet																						
Sampler - UPS	- Bus - Other:	44		P	No I	68				İ		M.										
					NO I	W	<u></u>															



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476											
Company Name: Addie Sean Consulty			ANALYSIS REQUEST								
Project Manager: 7	P.O. #:		4								
Address:	Company	<u>r.                                    </u>	1 1								
City: State: Zip:	Attn:		Sec Sec Nath								
Phone #: Fax #:	Address:	) <u>^</u>	]								
Project #: C+C Project Owner: 3.C	City:	me.									
Project Name: Por Langton NM of 16	State:	Zip:									
Project Location:	Phone #:		]								
Sampler Name: 55	Fax #:										
Lab I.D. Sample I.D.   301788   3 C. 00 H - 2   3 C. 00 H - 3   4 C. 010 H - 4   3 C. 010 H - 4   4 C. 010 H	SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL		Dengo Jengan Mangan Sulbat Zine Linaniu Phenal								
PLEASE NOTE: Liability and Dayneges. Cardina's liability and client's exclusive remedy for any claim arising what	or based in contract or lort, shall be I	limited to the amount paid by the client i	for the								
arridyses. All claims including these for regigence and any other cause whetherwer shall be dearned valued unless earlies. In no event shall Cardinal be liable for incidental or consequental danagus, including without limited on affiliation or successes within out of or related to the performance of services become by Cardina, regardless of	iness interruptions, loss of use, or lo	see of profits incurred by client, its subsid	derine.								
Relinquished By: Date: 7/20 Regived B		Phone R	Result: 🗆 Yes 🗆 No Add'i Phone #:								
Time: q	1 MON	DOM REMARK	uitt: □ Yes □ No  Add' Fax#: KS:								
Relinquished By:  Date: Retirived E											
	Intact  Yes 2 Yes  No No	HECKED MY:	ii.								



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476								
Company Name: San Covered		ANALYSIS REQUEST						
Project Manager:	P.O. #:							
Address:	Company:							
City: State: Zip:	Affin							
Phone #: Fax #:	Address							
Project #: C+C Project Owner:	city:	Children And And And And And And And And And An						
Project Name: C+C Louis Cours	State: Zip:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Project Location:	Phone #:							
Sampler Name: Con Little Sur Wander	Fax#:							
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING							
S S S S S S S S S S S S S S S S S S S		Track Charles of the Control of the						
CONTAINERS  GROUNDWATER  SOIL  SOIL  SUIDGE SUIDGE	iii	Por Printer Por Pr						
Lab I.D. Sample I.D.	OTHER: ACIDIASE OTHER: OTHER:	M C P P P P P P P P P P P P P P P P P P						
#301188 of # Sour	OTHER:	1997.13 1711 16						
	7/20 1:45							
26.00 4-2	7/29 7:10							
3640 4. 3	7/29 9:00							
4 Cell H - 4	7/29 8:25							
PLEASE NOTE: LiebBy and Damages. Cardina's lability and olient's exclusive remody for any dains arising whether besed in contra	ct or fact, shall be limited to the amount peld by the ellers to							
revelves. All claims including those for negligence and any other cause whistoever shell be deemed white any white a service. In no event shall Cardinal be itself for incidental or consequental damages, including without limitation, business interruption	nd received by Cardinal within 30 days after completion of t	he applicable						
afficiate or successors grights out of or related to the performance of services hereunder by Condest, recording of whether such their Relinquished By:    Date:	n is based upon any of the above stated ressons or offende	16						
130 101 1	ON NOT REMARKS	It:						
Eddy W Don Time: 9 an Wall of	WWW.	<b>3</b> ;						
Relinquished By: Date: Relatived By:	·	•						
Time:		•						
Delivered By: (Circle One) Sample Cond		· · · · · · · · · · · · · · · · · · ·						
Sampler - UPS - Bus - Other:	io GW	•						
† Ordinal cannot accept verbal changes. Please fax written changes to (575) 393-2328								