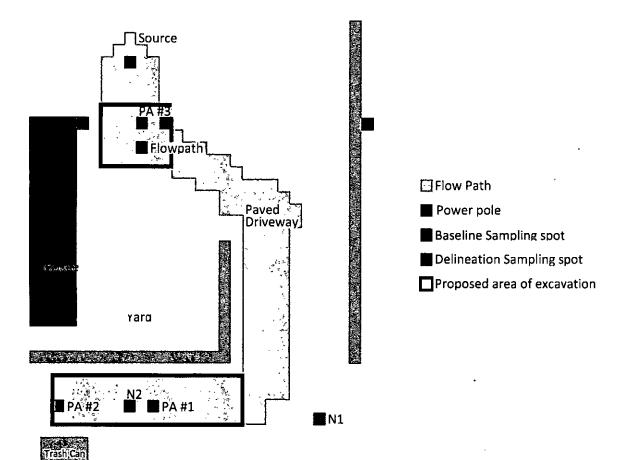
## Cortez Trucking Sampling Diagram March 1, 2013 6:00 am



Baseline Sampling							
10/29/2012	Choride mg/kg						
Source	336						
Flowpath (PA)	್ಕೆ 6500 ್ಕಿ						
N1	32						
N2 (PA)	12800						

ling		•		
Choride mg/kg	BTEX	GRO (mg/kg)	DRO (mg/kg)	Notes and the second
				18" Sample; 24" Hard caliche layer unable
880	ND	ND	ND	to penatrate
T				18" sample; 23" Hard caliche layer unable
512	NÐ	ND	ND	to penatrate
				19" sample; 21" Hard caliche layer unable
544	ND	ND	ND	to penatrate
	880 512	Choride mg/kg BTEX   880 ND   512 ND	Choride ms/ks BTEX GRO (mg/kg)   880 ND ND   512 ND ND	Choride mg/kg   BTEX   GRO (mg/kg)   DRO (mg/kg)     880   ND   ND   ND     512   ND   ND   ND

# Bratcher, Mike, EMNRD

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From:	BDE <bdenvironmental@gmail.com></bdenvironmental@gmail.com>
Sent:	Thursday, March 21, 2013 1:37 PM
To:	Bratcher, Mike, EMNRD
Subject:	Cortez lab analysis
Attachments:	H300537 BDE (01).pdf; ATT00001.txt

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March 07, 2013

AUSTIN WEYANT B D ENVIRONMENTAL , 2709 SANDIGALE DRIVE LAS CRUCES, NM 88001

**RE: CORTEZ TRUCKING** 

Enclosed are the results of analyses for samples received by the laboratory on 03/01/13 14:40.

Cardinal Laboratories is 'accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list 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)

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Accreditation applies to public drinking water matrices.

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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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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### Analytical Results For:

B D ENVIRONMENTAL					
AUSTIN WEYANT					
2709 SANDIGALE DRIVE					
LAS CRUCES NM, 88001					
Fax To: NONE					

Received:		03/01/2013	Sampling Date:	03/01/2013
Reported:		03/07/2013	Sampling Type:	Soil
Project Name:		CORTEZ TRUCKING	Sampling Condition:	Cool & Intact
Project Number:		NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	•	NOT GIVEN		

### Sample ID: PA #1 (H300537-01)

BTEX 8021B		21B mg/kg		Analyze	Analyzed By: AP					
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	k.	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*		<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	1	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	4	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	•	<0.300	0.300	03/07/2013	ND	,				
Surrogate: 4-Bromofluorobenzene (PIL		1149	89.4-12	6						
Chloride, SM4500Cl-B		mg/	kg	Analyze	d By: DW					
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

880	16.0	03/05/2013	ND	432	108	400	0.00	
mg	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/06/2013	ND	216	108	200	1.28	
<10.0	10.0	03/06/2013	ND	216	108	200	3.24	
80.4	% 65.2-14							
	mg Result <10.0 <10.0	mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	mg/kg     Analyzed       Result     Reporting Limit     Analyzed       <10.0	mg/kgAnalyzed By: MSResultReporting LimitAnalyzedMethod Blank<10.0	mg/kg     Analyzed By: MS       Result     Reporting Limit     Analyzed     Method Blank     BS       <10.0	mg/kg     Analyzed By: MS       Result     Reporting Limit     Analyzed     Method Blank     BS     % Recovery       <10.0	mg/kg     Analyzed By: MS       Result     Reporting Limit     Analyzed     Method Blank     BS     % Recovery     True Value QC       <10.0	mg/kg     Analyzed By: MS     BS     Recovery     True Value QC     RPD       <10.0

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

B D ENVIR	ONMENTAL
AUSTIN W	EYANT
2709 SANE	DIGALE DRIVE
LAS CRUCE	ES NM, 88001
Fax To:	NONE

Received:	,	03/01/2013	Sampling Date:	03/01/2013
Reported:	,	03/07/2013	Sampling Type:	Soil
Project Name:		CORTEZ TRUCKING	Sampling Condition:	Cool & Intact
Project Number: Project Location:	·	NONE GIVEN NOT GIVEN	Sample Received By:	Jodi Henson

### Sample ID: PA #2 (H300537-02)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	89.4-12	6					·	
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS			<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0		, <i>an</i> <del>14</del>				
Surrogate: 1-Chlorooctadecane	101 :	% 63.6-15	1						

### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Kerne

Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

B D ENVIRO	NMENTAL
AUSTIN WEY	'ANT
2709 <b>SA</b> NDI	GALE DRIVE
LAS CRUCES	NM, 88001
Fax To:	NONE

Received:	03/01/2013	Sampling Date:	03/01/2013
Reported:	03/07/2013	Sampling Type:	Soil
Project Name:	CORTEZ TRUCKING	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Jodi Henson

### Sample ID: SAMPLE #3 (H300537-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (i	PIL 113	% 89.4-12	26						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/05/2013	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15							

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\*=Accredited Analyte

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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### **Notes and Definitions**

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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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Page 5 of 6



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (474) 201-2126 EAX (474) 393-2476

(575) 393-2326	(575) 393-2326 FAX (575) 393-2476		
Company Name: KI	E	8117 - 10 - 1 - 10 - 1 - 1 - 1 - 1 - 1 - 1 -	ANALYSIS REQUEST
Project Manager:		P.O.#:	
Address:		Company: BC	
City:	State: Zip:	Attn: PUSTEN	· · · · · · · · · · · · · · · · · · ·
Phone #:	Fax #:	Address: SAUS	
Project #:	Project Owner:	city: LAR CALES	
Project Name: COILT	14	State: NM Zip: 88001	
on:	OUTEZ YAND	Phone #:	
Sampler Name: S. R.		Fax #;	
FOR LAB USE OILY	MATRIX	PRESERV SAMPLING	
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	0 8/ IATN 0/01 W31		
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Relinquished By: O	Date: V Ryceived By:	CL CRY	bdeniromertal @ grail co
, γανιλικά <sup>το</sup> αναστορίας <sup>τ</sup> αράγου ''''''''''''''''''''''''''''''''''''			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Cor Cool Inta Cool Inta Cool Inta	dition CHPCKED BY:	
† Cardinal cannot accept v	$ au$ Cardinal cannot accept verbal changes. Please fax written changes $ ext{target}_{1326}$	± 22,232,232,2326	

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Bage 6 of 6