

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1603649954

1RP - 4153

CIMAREX ENERGY CO. OF COLORADO

7/26/2016

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

JUN 0 6 2012 Revised August 8, 2011

4

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

HOBBS OCD

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Release Notification and Corrective Action ODEDATOD

	OPERATOR	Initial Report	X	Final Report
Name of Company Cimarex Energy	Contact John Osborne			
Address 2020 W Bender Hobbs, Nm 88240	Telephone No. 5745 390 8978			
Facility Name Lea AQ #007	Facility Type Oil Well			

Surface Owner Private

Mineral Owner

API No. 30-025-32640

6/6

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
К	29	195	35E					Lea

Latitude N32.6275 Longitude W-103.4838

NATURE OF RELEASE

Type of Release Oil/Water		Volume of Release 70bbis	Volume Recovered 55bbls
Source of Release Flow Line Least	k	Date and Hour of Occurrence 10May12	Date and Hour of Discovery 10May12
Was Immediate Notice Given?	X Yes D No Not Required	If YES, To Whom? Geoff Leking NM OCD	
By Whom? David Carter-Hungry	Horse	Date and Hour	
Was a Watercourse Reached?		If YES, Volume Impacting the W	atercourse.
	Yes X No	N/A	
If a Watercourse was Impacted, D N/A	escribe Fully.*		
Describe Cause of Problem and R			
The release was the result of a flo	w line hole. The line was repaired and the	he satrurated soil was stockpiled on p	plastic for transport and disposal.
			ng presented to NM OCD's Geoffrey Leking
			outside walls of each end of the excavation
			ples of the outside walls were submitted for
			osure approval was granted and the area was
			g terrain and seeded with a custom seed mix. tand that pursuant to NMOCD rules and
			ctions for releases which may endanger
			does not relieve the operator of liability
			ground water, surface water, human health
or the environment. In addition, h	MOCD acceptance of a C-141 report d		
federal, state, or local laws and/or	regulations.		
1.11/1	\cap	OIL CONSER	VATION DIVISION
simon lahre !!	(Jalorne)		
Signature: John F.	- Autor		
Printed Name: John Osborne	Solta Osborne	Approved by Environmental Special	ist:
Title: Foreman		Approval Date:	Expiration Date:
	Line Fail and	Conditions of Approval:	
E-mail Address: josbone e	CITA EXICON	Conditions of Approvat.	Attached
	hone: 575 3902 8978		
Attach Additional Sheets If Ne	cessary	RP STL	7813
			2813
		L	

JUN 0 6 2012

Job/Location: Cimarex AQ Lea #7 Date: 21May12 Field Test

RECEIVED

Sample Point	Depth	Field Test
#1 West Wall	16'	100 ppm
#1 East Wall	16'	49 ppm
#2 Bottom	10'	49 ppm
#3 West Wall	10'	232 ppm
#3 East Wall	10'	282 ppm

Sample Point	Depth	Field Test
	divert II de generalise d	
	····	
		-
	-	
1		

6/6

HOBBS OCD

JUN 0 6 2012



RECEIVED

PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/21/2012	Sampling Date:	05/21/2012
Reported:	05/22/2012	Sampling Type:	Soll
Project Name:	AQ LEA #7	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #1 WEST WALL (H201143-01)

Chionae, SM4500CI-B	mg,	mg/kg		Analyzed by: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/22/2012	ND	432	108	400	3.77	

Anal market and

Sample ID: SP #1 EAST WALL (H201143-02)

Chloride, SM4509Cl-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/22/2012	ND	432	108	400	3.77	

Sample ID: SP #2 BOTTOM (H201143-03)

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	05/22/2012	ND	432	108	400	3.77	

Sample ID: SP #3 WEST WALL (H201143-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			terme - and and taking to be a day as a		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/22/2012	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Demoges. Cardinal's lability and client's enclusive remedy for any claim attaing, whether based in contract or tort, shall be limited to the annount paid by client for analysis. All claims, including troose for negligence and any other cause whetpoer shall be deemed waived unless made in whiting and received by Candinal whitin thin's (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damapes, including, whithout limitation, business interruptions, loss of use, or loss of profits incurred by client, business or successors arising out of or related to the performance of the services beraunder by Candinal, negatives allow. This report shall not be reproduced source in Ministry client in the annount profits advantance.

Celey D. Keine

approved: Neces terring Env: specialist NMOCD-DIST 1 5/23/12

Page 2 of 5



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/21/2012	Sampling Date:	05/21/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	AQ LEA #7	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #3 EAST WALL (H201143-05)

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	05/22/2012	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEXEE NOTE: Liability and Damages. Controls's liability and elent's exclusive remedy far any claim wising, whether bated 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 wateroover shall be deemed watered welves made in writing and recover by Centhual within theiry (20) days after completion of the applicable services. In no event shall Continue be liable for buildential or consequential damages, including, webset limitation, builness intermptions, loss of tast, or less of profile laters, its abalisharks, atfliables or successors athling out of an related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based loss of an entited performance.

Celeg Ditreene-

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name		LLC	BILL TO	ANALYSIS REQUEST
Project Manager	· Vernon K. Bi	ack	P.O. #:	
Address:	PO Box 1058		Company:	
City:		1111 Zip: 582.41	Attn:	
Phone #: 475	-393-3384 Fax #:	575-391-4555	Address:	
Project #:	Projec	t Owner:	City:	
Project Name:	113		State: Zip:	
Project Location Sampler Name:	Vernon K. Bla	u.k.	Phone #: Fax #:	
FUR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D. H201143	Sample I.D.	(G)RAFI OR (C)OMP # CONTAINERS GROUNDWATEH WASTEWATER SOIL	OTHER - ACIDIBASE	N.3.1.8 1.7.1.7
	5 tel 1.			
2				
-3	Str. Section			
Ч	The second off			
5	1 Barris and			
				╊┈╎━╌┾╸┠─╌╎╴┾━┽╴┾━┽╶┽╍┼╺╼┨┈┈╎
BI FAST NOTE: 1 MAR	nd Dama we Candona's LanSity and client's each use	the remedy for the train of the within a first of the	bestor tort strak de limoes to the amount pars by the silent	
analyses, Al clamp exceed sense and events and afflance are exceeded a Relinquished B Relinquished B Delivered By	ing those for any gence and any other cause whats Cardinal be table for incidental or convequential alon may buil of related to the performance of services a by : Date: Time:	cave that be deend waves unless made in wing anges, including school including, but has near including hereinstele by Conduct in regarding of where a canad Recoived By:	and received by Cardinal within 30 days after or mylocing prail less of lube, of lass of profile neurose by Gent, its sub- ing tabled upper any of the thous shield receive by Gent, its sub- prive tabled upper any of the thous shield receive a share Plane B Fax Res REMARY Allon CHECKED BY: (Initial and	r'#re esp caole danes. rac. Gesult: ☐ Yes ☐ NoAdd"I Phone #: ult: ☐ Yes [] No _ Add"I Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to 506-393-2476

Page 5 of 5

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work	*	On-Site Remediation	*	Soil Testing	*	Excavation	
							Pag
May 20, 2012							1

To: Geoff Leking Reference: Remediation Work Plan Operator: Cimarex Location: AQ Lea # 007 API: 30-025-32640 Legals: Unit K, Sect. 29, T195, R35E GPS: 32.6275 -103.48386

Background Information

The AQ Lea # 007 is located 25 miles east of Hobbs, New Mexico and one mile south of 62/180 between MM 84-85. It located approximately 50 ft. east of the fence line which runs parallel to the cliché road. The spill is located in gentle rolling sand dunes. Based upon the Lea County Depth to Groundwater Map, the depth to groundwater is <50'. This spill began on the upward slope of a dune and ran downward and pooled approximately 165' from the point of release. The spill remained narrow except for the location of the pooling. The site is measured approximately 165' X 20'.

Depth to Groundwater	<50'
Distance to Surface Body of Water	>1000'
Wellhead Protection Area	>1000'

Current Work Completed

Upon discovery of the release, Hungry Horse, LLC was notified and remedial action to contain the release was started. We removed the saturated soil down to approximately 3' BGS. This material was stockpiled and then hauled to a division approved disposal facility. A vertical delineation was conducted to determine the downward penetration of the contaminants. See the attached field test results along with the lab analysis of the bottom samples.

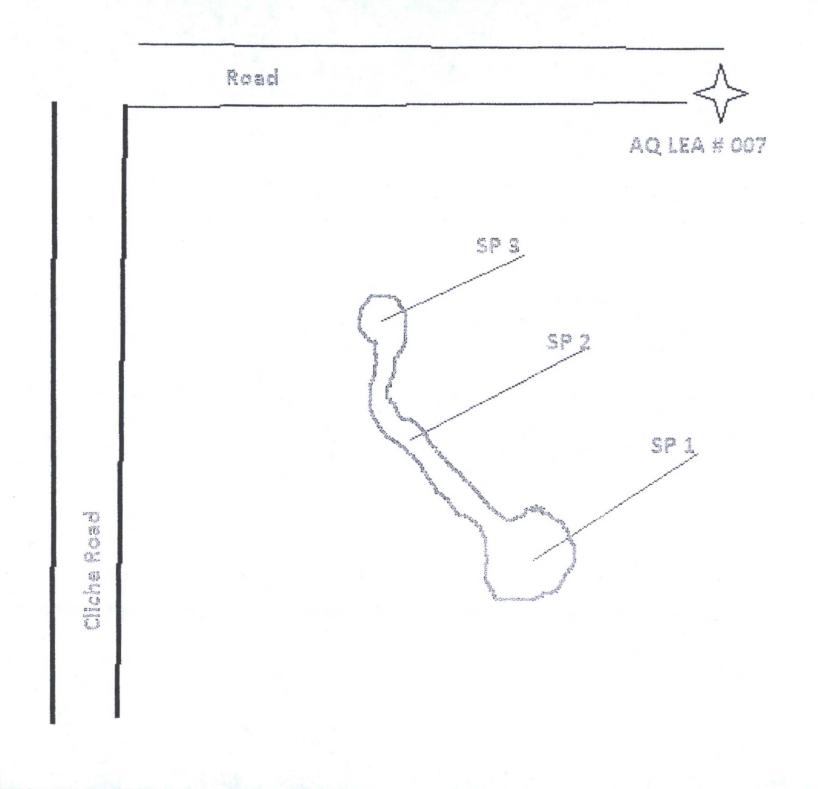
Remediation Work Plan Proposal

Due to the depth of groundwater, I am proposing to remediate the affected area using the dig and haul method. All contaminated soil will be mechanically excavated, stock piled, and transported to a division approved disposal facility. The affected area will be sampled with lab analysis conducted for chlorides. Lab results will be presented to NM OCD for closure approval. Upon receipt of closure approval, the excavated area will be backfilled with clean material, contoured to match the surrounding area, and seeded with a custom seed mixture.

Vernon K. Black, Hungry Horse, LLC

2 250PPM CL 3 CN BOTTOM & WALL SAMPLES AT SP-1 AND SP-3

P. O. Box 1058 * Hobbs New Mexico * Office 505.393.3386 * Fax 505.391.4585 Sherff John z Enr. Thereford NMOCD-PIST 1



Job/Location: Cimarex AQ LEA # 007

Date:

*5/13/2012

FieldTest

Sample Point	Depth	Field Test
SP 1		
	3' BGS	2273 ppm
	4' BGS	1107 PPM
	5' BGS	794 PPM
	8' BGS	713 PPM
	10' BGS	NO TRACE
SP 2		
	2' BGS	3422 PPM
	3' BGS	7947 PPM
	4' BGS	13030 PPM
	6' BGS	100 PPM
	9'BGS	330 PPM
SP 3		
	2' BGS	5602 PPM
	3' BGS	5602 ppm
	4' BGS	16397 PPM
	10' BGS	10577 PPM
	15' PPM	330 PPM
	16' PPM	132 PPM
]

Sample Point	Depth	Field Test
	and the second se	
	-	



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 8' BGS (H201087-01)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/16/2012	ND	2.20	110	2.00	0.903	
Toluene*	< 0.050	0.050	05/16/2012	ND	2.29	115	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	2.01	
Total Xylenes*	<0.150	0.150	05/16/2012	ND	7.09	118	6.00	2.34	
Surrogate: 4-Bromofluorobenzene (PIL	118 %	6 64.4-13	4			a an ann a 🗴 🗰 a Chaphann a shadhir a			
Chloride, SM4500Cl-8	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C5-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	87.1 9	6 55.5-15	4	********					
Surrogate: J-Chlorooctadecane	90.9 9	57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lubility and Damages. Ominish's lability and client's exclusive remedy law any claim brauge, whether based in context or toxi, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatepeer shall be learned watered unders made in writing and received by Cardinal by Client's exclusive strate completion of the applicable service. In mo every shall Confinal be limited or consequential damages, including, without limitation, business interruptions, loss of usa, or loss of profils incorred by client, is subsidiary adminest and and use and provide adminest and the sample damages. This report shall not be reproduced encycle h full with writim approval of Cardinal Laboratories.

Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 10' BGS (H201087-02)

BTEX 8021B mg/kg Analyzed By: ZZZ Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 05/17/2012 ND 2.14 107 2.00 4.14 Toluene* 0.050 05/17/2012 ND 2.24 < 0.050 112 2.00 4.57 05/17/2012 Ethylbenzene* <0.050 0.050 ND 2.22 111 2.00 4.16 Total Xylenes* <0.150 0.150 05/17/2012 ND 6.86 114 6.00 4.40 Surrogate: 4-Bromofluorobenzene (PIL 115 % 64.4-134 Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BŞ % Recovery True Value QC RPD Qualifier Chloride 64.0 16.0 05/16/2012 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 05/16/2012 ND 205 103 200 5.10 DRO > C10-C28 <10.0 10.0 05/16/2012 ND 222 111 200 26.6

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's Bablity and clearch enclose reclasche remedy for any daim assing, whether based in contract or toxt, shall be limited to the amount paid by clearst for analyses. All claims, industing those for negligence and any other cause wheteoever shall be dented on the amount paid by clearst for analyses. All claims, industing those for negligence and any other cause wheteoever shall be dented on the amount paid by clearst for analyses. All claims, industing those for negligence and any other cause wheteoever shall be dented on the amount paid by clearst for analyses. All claims, industing those for negligence and any other cause wheteoever shall be dented as an exist and clearst and be and the service and

Celey Z. Keine

86.1%

98.9%

55.5-154

57.6-158

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 6' BGS (H201087-03)

BTEX 8021B	mg/l	g	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	
Surrogate: 4-Bromofluorobenzene (PIL	115 %								

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	88.4 9		4						******
Surrogate; 1-Chlorooctadecane	92.0 9	57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Labelity and Damages. Cardina's labelity and clourd's exclusive resmody for any dawn astaing, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including linose for negligence and any other cause whatecover shall be beened walved unless make is writing and received by Centhal willing thry (20) days after complexities of the applicable sorvice. In no event shall Cardinal be lable for isodenial or consequential damages, including, whether limitation, business interruptions, loss of use, or loss of profiles incared by divert, all this stability, all'effects or scores, while use of or relation to the parentee labelity of the annual relate tendent by Centhal, negaritiess of whether such claim is based topon any of the above.

Celez Ditreene



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 9' BGS (H201087-04)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14		
Toluene* <0.0		0.050	05/17/2012	ND	2.24	112	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16		
Total Xylenes*		0.150	05/17/2012	ND	6.86	114	6.00	4.40		
Surrogate: 4-Bromofluorobenzene (PIL		% 64.4-13	,							
Chloride, SM4590Cl-B	mg/	kg	Anafyze	d By: HM						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352 16.0		05/16/2012 ND		400	100	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: NS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10		
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6		
Surrogate: 1-Chlorooctane	88.7	% 55.5-15	4							
Surrogate: 1-Chlorooctadecane	91.8	% 57.6-15	8							

Cardinal Laboratories

*=Accredited Analyte

PLEAGE NOTE: Lubality and Demoges. Dandinat's isobility and client's exclusive roomedy for any claims arising, whether based in contract or tart, shall be limited to the annount paid by client for analyzes. All claims, including those for negligence and any other cause vehicleness of the algolicate service. In no event shall be demond velocid unless made in writing and received by Cardinal by Cardinal by Cardinal by the stable for indefended or contequential damages, including, whether issues interruptions, based or use, or loss of profiles incurrent by client, as substables, without setting and received and profiles incurrent by client, as substables, without setting cardinal to the performance of the services hereunder by Cardinal, regardless of whether such claim is based topo my of the shows stated recomes or otherwise. This report shall not be reproduced except in full with writion approach clarities.

Celey Litrene-



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 15' BGS (H201087-05)

BTEX 8021B mg/kg Analyzed By: 222 Reporting Limit Method Blank True Value QC Qualifier Analyte Result Analyzed BS % Recovery RPD 0.050 05/17/2012 Benzene* <0.050 ND 2,14 107 2.00 4.14 Toluene* <0.050 0.050 05/17/2012 ND 2.24 112 2.00 4.57 Ethylbenzene* 05/17/2012 <0.050 0.050 ND 2.22 111 2.00 4.16 Total Xylenes* <0.150 0.150 05/17/2012 6.86 6.00 4.40 ND 114

Surrogate: 4-Bromofluorobenzene (PIE 117% 64.4-134

Chioride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0 10.0		05/16/2012	ND	222	111	200	26.6	
Surrogate: I-Chlorooctane	93.3 9	% 55.5-15-	4		200 5 12 12 10 1 10 1				
Surrogate: 1-Chlorooctadecane	97.4 9	97.4% 57.6-15							

Cardinal Laboratories

*=Accredited Analyte

PLEXE NOTE: Liability and Derruges. Candeni's lability and clients exclusive remedy for any client for analyzes, whether based in contract or toxt, shall be limited to the amount paid by client for analyzes. All claims, including those for negligence and any other cause vehatobeer shall be denned waved unless index made in writing and monitories by Cardinal by Cardinal, regurdees or whether such claims based upon any of the based are labor enterback classifies and those. This report shall be monther such claims based labor. This report shall be reproduced are within written approved Cardinal Laboratories.

Celeg Di Keine



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	05/15/2012	Sampling Date:	05/14/2012
Reported:	05/17/2012	Sampling Type:	Soil
Project Name:	LEA AQ #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 16' BGS (H201087-06)

BTEX 8021B	mg/	kg	Analyze	d By: 222					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2,22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4,40	
Surrogate: 4-Bromofluorobenzene (PIL	118 %		4		there and a for for a destrat				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed Method Bla		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	90.0 9	6 55.5-15-	4						the second second
Surrogate: 1-Chlorooctadecane	93.0 9	57.6-15	8						

Sample ID: CONTROL SAMPLE (H201087-07)

Chloride, SM4500Cl-8	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	05/16/2012	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

All claims, including those for neglig PLEASE NOTE: Liability and Da t paid by client for analy ice and In no ex shall Cardinal be liable weived unless made in writing and received by Can ns, loss of use, or loss of profits incurred by client, than thirty (30) days after co any other cause er shall be di including, without similation, business into delm is based upon any of the above stated no arising out of or rela by Ca its schold ies, attilates or succ ted to the perfor

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, H (575) 393-2326 FAX																								
Company Name	" Hungry	Herse	and the second second								311	L TO	I)						ANA	LYS	S RE	EQUE	ST		
Project Manage	r: ` ()							Ρ.	0. #.	:											T		1		
Address:								Co	ompa	any:															
City:		State:	Zip:					At	tn:					_											
Phone #:		Fax #:						A	ddre	ss:												1			
Project #:		Project Owne	r: (Lir	wire	X		Ci	ty:																
Project Name:	Lea AQ #	7						St	ate:			Zip:													
Project Location	n: Lea Co							Ph	none	#:															
Sampler Name:								Fa	x #:						ile.										
FOR LAB USE ONLY				Т		MATH	XIX		The local division in which the local division in which the local division in the local	ESE	RV.	SAMP	LIN	G		V	~								
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER		OIL SI LIDGE	OTHER :	ACID/BASE:	IICE / COOL	HER :				Chlor	Bres	HOT								
H201057			(G)	#	WA	SOIL		E E	ACI	벌	FO	DATE		TIME											
1	SP1 8'P	GS	1		_	17		-		4		6/14/1	2	1600	1	~	~								
2	SP1 10'B	65	1			17				4					1	~		1	-		1			 	
	500 L 1 0			-					-		-				-									 	
3	SP2 6'B		ľ			13				-	-				ľ,	~	1			+				 	
4	SPC 7' 00		1							-				-	1										
6	< D3 15 BA	S	V			-	·		-	1				···	1	1	1		-			•		 	
6	5P3 15 BG 5P3 12 BG	5	1	-		1		1		1			-		V	1	1					+		 ••••••••••••••••	
			-			+	1						1									+	-	 	
7	Control .	andle	~			1		-					+		V		1.1 · · · · ·				-	+		 	
enalyses. All claims includ service. In no event shall of antibalities or subcessorth arrows Relinquished B Relinquished B Delivered By	nd Damages. Cardinal's labelity and a mig linear for negligance and any other Zardmal be lable for moviental or come and out of or releted to the performanc Y	kent's exclusive remedy for cause whatsaever shall be equential damages, includin	Rei	walved hnutnii regard colve colve colve colve	an busin on, busin ess of wh ad By ad By Sam	esa inter nether su	in claur	ition	erved by of use, i sed upo	y Cardi or loss on any M	of pro of the	nthin 30 days offits incurred l	after c by clie reaso		he applicab vies. sult: sult:	le Vet	9 C 8 C	No No		I Phone I Fax #					

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