

### **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:** pJXK1604134903

1RP - 2831
SOUTHWEST ROYALTIES INC

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 6211 3 2012
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa

\* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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						OPERA	TOR			☐ Ini	tial Report	X	Final	Report
Name of Co	ompany So	outhwest Ro	yalties			Contact Lui	s Gonz	alez						
				d, TX 79705	-	Telephone 1	No. 432	661 47	08					
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Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet fr	om the	East/\	West Line	County			
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If a Waterco	urse was Im	pacted, Descr	ibe Fully.	k										
N/A														
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The area wa	s divided in	nto three sepa	arate area	s for remediation	n. Each	area was ex	cavated	with soi	I sample	es being fie	eld tested for	chlor	ides. U	pon
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Date: 6Aug1	ha	I I	HUHC. 434	-001-7/00										1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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District III
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 8

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	catio	n and Co	orrective A	ction				
1						<b>OPERA</b>	TOR	>	Initi	al Report		Final Repo
Name of Co	ompany Se	outhwest Ro	yalties			Contact Lui	is Gonzalez					
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Surface Ow	ner BLM			Mineral (	Owner				API No	0. 30-025-2	8474	- 14
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Printed Nam	c. Luis Goi	izalez		71/						D. Ola	7	)
Title:						Approval Da	te: 6/22/12	Ex	piration	Date: 8/2	416	
		ez@claytonw					f Approval: 508		JAL	Attached		2-283
Date: 20Jur	12	Phone: 43	2 661 470	8						41.44	W 1	_

\* Attach Additional Sheets If Necessary

HOBBS OCD District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NA 162 1 3 2012 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

1RP-6-12-2831

1220 S. St. Fra	ncis Dr., San	ta PRECEISO	5	S	anta F	e, NM 875	505		
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Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County
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Type of Rela	ease Produc	ed Water an	d Oil	IVA	UKL	_	Release 210 bbl	s Volume	Recovered 120 bbls
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Was Immedi	ate Notice		Yes 🗌	No Not Re	equired	If YES, To		and Jim Amos-I	BLM
By Whom?	Vernon K.	Black-Hungr	v Horse,	LLC		Date and I	Hour 19Jun12 17	00hrs	
Was a Water							olume Impacting		
Castle Alexand			Yes X	No		N/A			
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*			( - N		N W M W W W W W
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The area wa	s divided i	nto three sep	arate area	as for remediation	n. Eacl	h area was ex	cavated with soil	samples being fie	eld tested for chlorides. Upon
									H, and BTEX analysis. Results
				th a BLM appro			as granted and	ine excavated are	as were backfilled with clean
I hereby cert	ify that the	information g	iven above	e is true and com	olete to	the best of my	knowledge and	inderstand that pur	suant to NMOCD rules and
regulations a	ll operators	are required t	o report a	nd/or file certain	release	notifications a	nd perform correc	ctive actions for re	eases which may endanger
									ieve the operator of liability
and the second second second									r, surface water, human health compliance with any other
		ws and/or reg		planee of a C-141	report	does not rene	e the operator of	responsibility for t	compliance with any other
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Printed Nam	e: Luis Gor	nzalez				9. 14. 17.		Hee	of derring
Title: Enviro	nmental R	egulatory Ac	lministra	tor	13.3	Approval Da	te: 8/13/1	2 Expiration	Date:
							ST 50. 13. 13		Attached
E-mail Addr	ess. igonzai	ez@claytonv	villiams.c	UIII		Conditions o	Approvai:		

Phone: 432-661-4708

Date: 6Aug12 Phon

\* Attach Additional Sheets If Necessary

### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

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10July12

To: Geoffrey Leking, NM OCD District 1
Jim Amos, BLM, Carlsbad District
Reference: Remediation Work Plan

Location: Cities Federal #2

API: 30-025-28474

Operator: Southwest Royalties Legals: Ul. M, Sec. 20, T22S, R36E MORKPLAN

### **Background Information**

An unplanned release occurred and was discovered on the morning of 19Jun12, at the above referenced location. The point of release is directly behind the Cities Fed #2 SWD in the NE ¼ of Sec. 18, T22S, R36E. The GPS for the point of release is N32.3966 W-103.2962. The affected area is approximately 400 yards south of the intersection of Delaware Basin Road and Weaver Road in rural Lea County, NM. The released fluid traveled southwest and then south for approximately 850′ on one side of a lease road before exiting the road and going southeast for approximately 550′ (See attached overhead map) into the pasture. Upon discovery, emergency actions were initiated with vacuum trucks removing all free fluids; all highly concentrated saturated soils were excavated and stockpiled on plastic near the facility. Initial soil samples were obtained from three sample points at depths of 6″, 1′, and 2′ (See attached lab analysis w/corresponding map of sample points). The release was reported by telephone to Mr. Jim Amos with BLM and Mr. Geoffrey Leking with NM OCD.

There are no water wells or surface bodies of water within 1000' of this location. Based upon the Lea County Depth to Groundwater Map, depth to groundwater is 385'. This information gives the location a Site Ranking Score of "0".

### **Remediation Proposal**

Based upon the initial lab analysis and work already completed, I submit the following remediation proposal.

1) Excavation will continue at the point of release to a depth of 3' below ground surface (BGS) with chloride field testing of soil samples. If field tests indicate chlorides are still elevated, excavation and field testing will continue until field tests indicate levels at or below closure levels. At this point, confirmation samples will be obtained for lab analysis.

P. O. Box 1058 \* Hobbs New Mexico \* Office 505.393.3386 \* Fax 505.391.4585

- For coloridar sample to 250 PPM - approved. Jecoff Lebenco Enr. Specialist 7/18/12 NMOCD-DIST / 7/18/12

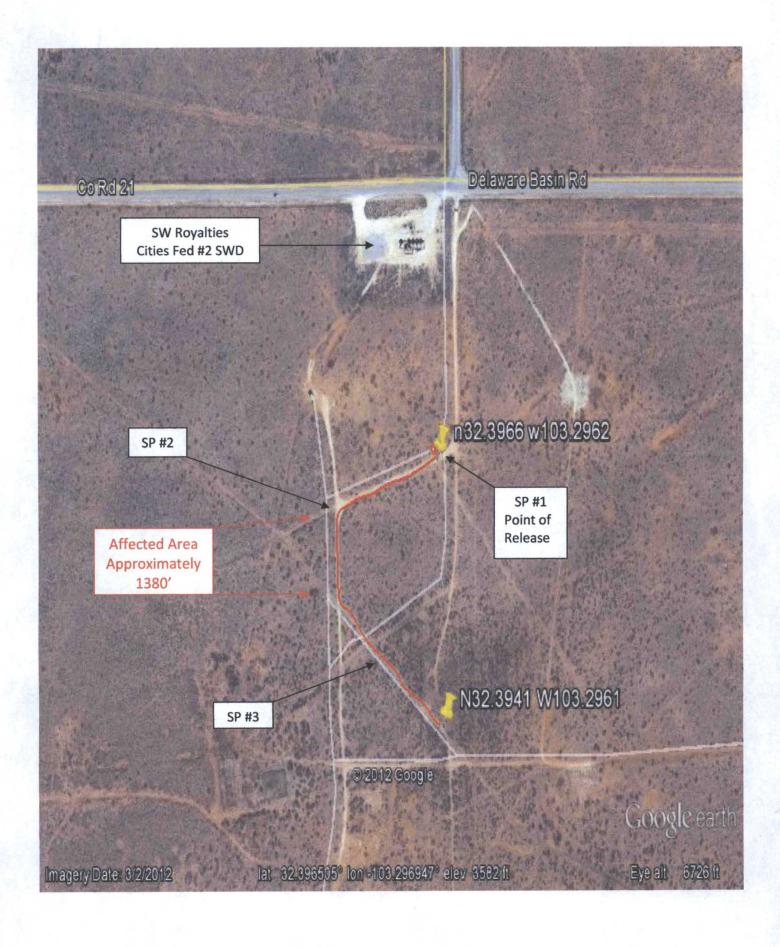
### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

Page | 2

- 2) The affected area of the lease road will be sampled and field tested (chlorides) at three sample points. If field test indicate levels at or below closure levels, confirmation samples will be obtained and submitted for lab analysis. If the field tests indicate elevated levels of chlorides, the affected area of the road will be excavated further with sampling following the same procedures as outlined in #1.
- 3) The affected area of the pasture where the released fluid exited the lease road to the termination point will excavated to a depth of approximately 3' below ground surface. Three soil samples will be obtained and field tested following the above outlined procedures.
- 4) Upon receiving lab analysis that samples are at or below closure levels, results will be presented to NM OCD's Geoffrey Leking for his review and closure approval. Upon receipt of closure approval, backfilling will begin.
- 5) The affected area at the point of release will be backfilled using clean caliche as needed. The surrounding sand dunes and nearby material will be used for topsoil. Due to the affected area being located on a downhill slope, water breaks will be installed as per BLM request.
- 6) The lease road will be repaired with clean caliche from a nearby pit.
- 7) The point southeast of the lease road in the pasture will be backfilled with clean caliche as needed with the surrounding material used as topsoil.
- 8) All affected areas in the pasture will be seeded with a BLM approved seed mixture.
- All excavated material will be transported to a division approved disposal facility for disposal.

Vernon K. Black, Hungry Horse LLC



**Lab Analtytical Results** 

Job: SW Royalties Cities Federal #2

Date: 19Jun12

### **Chlorides**

Sample Point

	Sumple Forme				
Depth	#1	#2	#3		
6"	3800 ppm	4730 ppm	3370 ppm		
1'	7450 ppm	5610 ppm	8970 ppm		
2'	11,300 ppm	361 ppm	2380 ppm		
				ļ	

### **TPH**

Sample Point

Depth	#1	#2	#3	
6"	106 ppm	4280 ppm	1790 ppm	
1'	211 ppm	4670 ppm	2750 ppm	
2'	21 ppm	565 ppm	969 ppm	
	-			 
<b></b>	-			

	11/1/11	
Signature:	UM 21	M



Project Location: Eunice, NM

Contact: Luis Gonzalez

Project Id:

# Certificate of Analysis Summary 444371

Southwest Royalties, Midland, TX

Project Name: Cities Federal # 2

Date Received in Lab: Thu Jun-21-12 08:25 am

Report Date: 06-JUL-12

Project Manager: Nicholas Straccione

	Lab Id:	444371-001	444371-002	444371-003	444371-004	444371-004 444371-005	444371-006
D. C.	Field Id:	SP # 16"	SP # 1 1"	SP # 1 2'	SP # 26"	SP # 2 1'	
Analysis Kequesiea	Depth:	6- In	1- ft	2- ft	6- In	1- ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jun-20-12 07:00	Jun-20-12 07:00				
Inorganic Anions Cl by EPA 300/300.1	Extracted:	Jun-26-12 13:24	Jun-26-12 13:40	Jun-26-12 15:17	Jun-26-12 13:56	Jun-26-12 14:13	Jun-26-12 15:49
SUB: TX104704215	Analyzed:	Jun-26-12 13:24	Jun-26-12 13:40	Jun-26-12 15:17	Jun-26-12 13:56	Jun-26-12 14:13	Jun-26-12 15:49
	Units/RL:	mg/kg RL	mg/kg				
Chloride		3800 117	7450 120	11300 117	4730 119	5610 108	
Percent Moisture	Extracted:						
	Analyzed:	Jun-22-12 12:25	Jun-22-12 12:25				
	Units/RL:	% RL					
Percent Moisture		14.7 1.00	16.4 1.00	14.5 1.00	16.2 1.00	7.53 1.00	
TPH By SW8015 Mod	Extracted:	Jun-27-12 15:00	Jun-27-12 15:00				
	Analyzed:	Jun-29-12 11:36	Jun-29-12 12:09	Jun-29-12 12:43	Jun-29-12 13:16	Jun-29-12 13:51	Jun-29-12 14:25
	Units/RL:	mg/kg RL	mg/kg				
C6-C12 Gasoline Range Hydrocarbons		20.7 17.6	28.8 17.9	ND 17.5	1460 17.9	1340 16.2	
C12-C28 Diesel Range Hydrocarbons		65.7 17.6	153 17.9	21.0 17.5	2700 17.9	3220 16.2	
C28-C35 Oil Range Hydrocarbons		19.6 17.6	29.6 17.9	ND 17.5	119 17.9	109 16.2	
Total TPH		106 17.6	211 17.9	21.0 17.5	4280 17.9	4670 16.2	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Alejandro Montoya Odessa Laboratory Director



Project Location: Eunice, NM

Contact: Luis Gonzalez

Project Id:

# Certificate of Analysis Summary 444371

Southwest Royalties, Midland, TX

Project Name: Cities Federal # 2

Date Received in Lab: Thu Jun-21-12 08:25 am

Report Date: 06-JUL-12

Project Manager: Nicholas Straccione

Total TPH	C28-C35 Oil Range Hydrocarbons	C12-C28 Diesel Range Hydrocarbons	C6-C12 Gasoline Range Hydrocarbons	Un	An	TPH By SW8015 Mod Ext	Percent Moisture	Un	An	Percent Moisture Ext	Chloride	Un	SUB: TX104704215	300/300.1	Sa	<i>A</i>	casemposo and medicu		
				Units/RL:	Analyzed:	Extracted:		Units/RL:	Analyzed:	Extracted:		Units/RL:	Analyzed:	Extracted:	Sampled:	Matrix:	Depth:	Field Id:	Lab Id:
1790 18.2	134 18.2	1160 18.2	497 18.2	mg/kg RL	Jun-29-12 14:59	Jun-27-12 15:00	17.7 1.00	% RL	Jun-22-12 12:25		3370 122	mg/kg RL	Jun-26-12 14:29	Jun-26-12 14:29	Jun-20-12 07:00	SOIL	6- In	SP # 3 6"	444371-007
2750 17.1	135 17.1	1780 17.1	838 17.1	mg/kg RL	Jun-29-12 15:33	Jun-27-12 15:00	12.4 1.00	% RL	Jun-22-12 12:25		8970 114	mg/kg RL	Jun-26-12 14:45	Jun-26-12 14:45	Jun-20-12 07:00	SOIL	1- ft	SP #3 1'	444371-008
969 18.7	106 18.7	585 18.7	278 18.7	mg/kg RL	Jun-29-12 16:06	Jun-27-12 15:00	19.8 1.00	% RL	Jun-22-12 16:40		2380 125	mg/kg RL	Jun-26-12 15:01	Jun-26-12 15:01	Jun-20-12 07:00	SOIL	2- ft	SP # 3 2'	444371-009

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data bereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

### The Environmental Lab of Texas Xenco Laboratories (lab use only) ORDER #: Special Instructions: Relinquished by: Relinquished by AB # (lab use only) Project Manager: City/State/Zip: Company Address: Company Name Telephone No: Sampler Signature: De FIELD CODE 1 TILOB 121-1 Date 2374 2 NOE WEST **Beginning Depth** 24 243 C24 Ime E **Ending Depth** 1000 = 0 Received by: Received by ELOT Received by: YACTIC **Date Sampled** Cayras Wirci Am A Fax No: Moon 1.20 e-mail: Time Sampled W Field Filtered Total #. of Containers 7 ERNON @ AUNGRY-HORSE. COM CADHEMES @ Odessa, Texas 79765 12600 West I-20 East Ice HNO<sub>3</sub> HCI H<sub>2</sub>SO<sub>4</sub> 6 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 1 NaOH 0 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> CONTON WILLIAMS 62/12 3 Other (Specify) Matrix Report Format: Project Name: 25.5 Project Loc: Time 8015 Time 418.1 Project #: TPH: TX 1005 TX 1006 PO#: Temperature Upon Receipt: Sample Hand Delivered Custody seals on cooler(s) Labels on container(s) Custody seals on container(s) VOCs Free of Headspace? Sample Containers Intact? Laboratory Comments: Cations (Ca, Mg, Na, K) Anions (CI, 604, Alkalinity) TOTAL: Standard SAR/ESP/CEC UNIC 53 Phone: 432-563-1800 Fax: 432-563-1713 Metals: As Ag Ba Cd Cr Pb Hg Se nalyze 234 Volatiles M For: X BTEX/80278/5030 or BTEX 8260 ☐ TRRP As Read 6.00 redeam RCI N.O.R.M. 7 5.7 **~~~~~~** Corrected NPDES ZZZZZZ RUSH TAT (Pre-Schedule) 24, 48, 72 hr. Standard TAT

### Southwest Royalties Remediation Summary

HOBBS OCD

AUG 1 3 2012

RECEIVED

Cities Federal #2

API 30-025-28474

Lea County, New Mexico

NE 1/4 Sec. 18, T22S, R36E

GPS N32.3966 W-103.2962

1RP-6-12-2831

Start date: 20Jun12

Finish date: 3Aug12

Prepared By: Vernon K. Black

Hungry Horse, LLC

PO Box 1058

Hobbs, NM 88241

(575)-393-3386



### **Table of Contents**

1.0 Introduction	HOBBS OCD	pg. 1
2.0 Area Description	1	pg. 1
3.0 Remediation Process	AUG 1 3 2012	pg. 1-2
Overhead Map w/ Affected Area in Red	1	pg. 3
	RECEIVED	

### **Attachments**

Attachment 1 - C 141's Initial & Final

Attachment 2 – Remediation Work Plan w/Approval

Attachment 3 – Lab Analysis w/Chain of Custody

Attachment 4 - One Calls

Attachment 5 - Photos of Project

### 1.0 Introduction

This report addresses the remediation at SW Royalties Cities Federal #2 location. The remediation was in response to a flow line failure. This remediated location is approximately 7 miles west of Eunice, New Mexico south of the intersection of Delaware Basin Road and Weaver Road behind the SWD in rural Lea County. The GPS at the point of release is N32.3966 W-103.2962 and the point of termination is N32.3941 W-103.2961.

### 2.0 Area Description

The top two to three feet of soil is mainly sandy topsoil. Below this layer, the formation begins to turn into a more of a caliche/caliche rock base. Based upon the Lea County Depth to Groundwater Map, the depth to ground water is 385'. There are no known water wells or surface bodies of water within a half of a mile of this location. The area vegetation is mainly native grasses and mesquite.

The affected area was approximately 70' x 100' at the point of release. The released fluid traveled a very narrow path, 2'-4', along the lease road to the west and then turned south along an adjoining road before entering the pasture at the point of an old Right of Way (ROW) and traveling to the south east and pooling in an area approximately 50' x 50'. The total distance the fluid traveled was approximately 1,380'.

### 3.0 Remediation Process

Upon detection of the release, vacuum trucks and a backhoe were mobilized to start the first stage clean-up actions. Free standing liquid was recovered by the vacuum trucks and saturated soil was excavated by a backhoe. All excavated soil was stockpiled on plastic for transport to a division approved disposal facility. Initial soil samples were obtained for lab analysis. Verbal notification was given to NM OCD's Geoffrey Leking and BLM's Jim Amos.

The lab analysis of the initial soil samples was used to develop the Remediation Work Plan which was presented to NM OCD's Geoffrey Leking and BLM's Jim Amos. The work plan was approved as presented and work was scheduled to start.

The affected area was divided into three separate areas for remediation as per the work plan; the point of release, the roads, and the ROW/termination point. Chlorides being the primary contaminant of concern, soil samples were obtained during the excavation process of each area and field tested using titration strips. When field test indicated chloride levels were at or below closure limits, the samples were transported under chain of custody for lab analysis. Lab analysis was conducted for Chlorides, TPH, and BTEX.

Lab results were presented to NM OCD's Geoffrey Leking for his review and closure approval. Closure approval was granted and the back fill operations began. Clean material from a nearby source was used

for the primary backfill. The adjacent sand dunes were used as top cover. The affected area was contoured to match the surrounding terrain to include water breaks and seeded with a BLM approved seed mixture.

All excavated material was transported to a division approved disposal facility.



### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

Page | 1

10July12

To: Geoffrey Leking, NM OCD District 1 Jim Amos, BLM, Carlsbad District Reference: Remediation Work Plan

Location: Cities Federal #2

API: 30-025-28474

Operator: Southwest Royalties Legals: Ul. M, Sec. 20, T22S, R36E

### **Background Information**

An unplanned release occurred and was discovered on the morning of 19Jun12, at the above referenced location. The point of release is directly behind the Cities Fed #2 SWD in the NE ¼ of Sec. 18, T22S, R36E. The GPS for the point of release is N32.3966 W-103.2962. The affected area is approximately 400 yards south of the intersection of Delaware Basin Road and Weaver Road in rural Lea County, NM. The released fluid traveled southwest and then south for approximately 850' on one side of a lease road before exiting the road and going southeast for approximately 550' (See attached overhead map) into the pasture. Upon discovery, emergency actions were initiated with vacuum trucks removing all free fluids; all highly concentrated saturated soils were excavated and stockpiled on plastic near the facility. Initial soil samples were obtained from three sample points at depths of 6", 1', and 2' (See attached lab analysis w/corresponding map of sample points). The release was reported by telephone to Mr. Jim Amos with BLM and Mr. Geoffrey Leking with NM OCD.

There are no water wells or surface bodies of water within 1000' of this location. Based upon the Lea County Depth to Groundwater Map, depth to groundwater is 385'. This information gives the location a Site Ranking Score of "0".

### **Remediation Proposal**

Based upon the initial lab analysis and work already completed, I submit the following remediation proposal.

Excavation will continue at the point of release to a depth of 3' below ground surface (BGS)
with chloride field testing of soil samples. If field tests indicate chlorides are still elevated,
excavation and field testing will continue until field tests indicate levels at or below closure
levels. At this point, confirmation samples will be obtained for lab analysis.

P. O. Box 1058 \* Hobbs New Mexico \* Office 505.393.3386 \* Fax 505.391.4585

approved.

Jeef Selency

Enr. Specialist 7/18/12

### HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

Page | 2

- 2) The affected area of the lease road will be sampled and field tested (chlorides) at three sample points. If field test indicate levels at or below closure levels, confirmation samples will be obtained and submitted for lab analysis. If the field tests indicate elevated levels of chlorides, the affected area of the road will be excavated further with sampling following the same procedures as outlined in #1.
- 3) The affected area of the pasture where the released fluid exited the lease road to the termination point will excavated to a depth of approximately 3' below ground surface. Three soil samples will be obtained and field tested following the above outlined procedures.
- 4) Upon receiving lab analysis that samples are at or below closure levels, results will be presented to NM OCD's Geoffrey Leking for his review and closure approval. Upon receipt of closure approval, backfilling will begin.
- 5) The affected area at the point of release will be backfilled using clean caliche as needed. The surrounding sand dunes and nearby material will be used for topsoil. Due to the affected area being located on a downhill slope, water breaks will be installed as per BLM request.
- 6) The lease road will be repaired with clean caliche from a nearby pit.
- The point southeast of the lease road in the pasture will be backfilled with clean caliche as needed with the surrounding material used as topsoil.
- 8) All affected areas in the pasture will be seeded with a BLM approved seed mixture.
- All excavated material will be transported to a division approved disposal facility for disposal.

Vernon K. Black, Hungry Horse LLC

### Vernon Black

From:

Amos, James A [jamos@blm.gov] Wednesday, July 18, 2012 10:47 AM

To:

Vernon Black

Subject:

RE: SW Royalties-Cities Fed #2

Varnan

Vernon, I'm OK with this plan, provide notice of start. thanks

From: Vernon Black [mailto:VBlack@Hungry-Horse.com]

Sent: Wednesday, July 18, 2012 9:13 AM

To: Amos, James A

Subject: SW Royalties-Cities Fed #2

Hello Jim,

Here's the info on the release at the SW Royalties Cities Fed #2 that you looked at the other day for me. Sorry it took so long to get this to you, but we had some tech difficulties with the lab. Let me know if you have any questions or if there's something you see that needs to be amended. If all is OK, I'll get this scheduled and we'll get it taken care of. I'll advise once we are finished.

Vernon K. Black Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 575 393 3386 office 575 631 2253 cell



Contact: Luis Gonzalez

Project Id:

Project Location: Eunice, NM

# Certificate of Analysis Summary 444371

Southwest Royalties, Midland, TX

Project Name: Cities Federal # 2



Date Received in Lab: Thu Jun-21-12 08:25 am

Report Date: 09-JUL-12

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	Lab Id:	444371-001	444371-002	444371-003	444371-004	444371-005	444371-006
Australia Dannach	Field Id:	SP # 1 6"	SP #11'	SP # 12'	SP # 2 6"	SP # 2 1'	SP # 2 2'
Anutysis nequesieu	Depth:	e- In	1- ft	2- ft	e- In	1- A	2- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jun-20-12 07:00	Jun-20-12 07:00	Jun-20-12 07:00	Jun-20-12 07:00	Jun-20-12 07:00	Jun-20-12 07:00
Inorganic Anions Cl by EPA 300/300.1	Extracted:	Jun-26-12 13:24	Jun-26-12 13:40	Jun-26-12 15:17	Jun-26-12 13:56	Jun-26-12 14:13	Jun-26-12 15:49
SUB: TX104704215	Analyzed:	Jun-26-12 13:24	Jun-26-12 13:40	Jun-26-12 15:17	Jun-26-12 13:56	Jun-26-12 14:13	Jun-26-12 15:49
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3800 117	7450 120	11300 117	4730 119	5610 108	361 10.6
Percent Moisture	Extracted:						
	Analyzed:	Jun-22-12 12:25	Jun-22-12 12:25	Jun-22-12 12:25	Jun-22-12 12:25	Jun-22-12 12:25	Jun-22-12 12:25
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		14.7 1.00	16.4 1.00	14.5 1.00	16.2 1.00	7.53 1.00	5.49 1.00
TPH By SW8015 Mod	Extracted:	Jun-27-12 15:00	Jun-27-12 15:00	Jun-27-12 15:00	Jun-27-12 15:00	Jun-27-12 15:00	Jun-27-12 15:00
	Analyzed:	Jun-29-12 11:36	Jun-29-12 12:09	Jun-29-12 12:43	Jun-29-12 13:16	Jun-29-12 13:51	Jun-29-12 14:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		20.7 17.6	28.8 17.9	ND 17.5	1460 17.9	1340 16.2	122 15.9
C12-C28 Diesel Range Hydrocarbons	1	65.7 17.6	153 17.9	21.0 17.5	2700 17.9	3220 16.2	374 15.9
C28-C35 Oil Range Hydrocarbons		19.6 17.6	29.6 17.9	ND 17.5	119 17.9	109 16.2	69.1 15.9
Total TPH		106 17.6	211 17.9	21.0 17.5	4280 17.9	4670 16.2	565 15.9

Nicholas Straccione

Project Manager

Page 23 of 33

Final 1.000

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

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Contact: Luis Gonzalez

Project Id:

Project Location: Eunice, NM

# Certificate of Analysis Summary 444371

Southwest Royalties, Midland, TX

Project Name: Cities Federal # 2

The state of the s

Date Received in Lab: Thu Jun-21-12 08:25 am Report Date: 09-JUL-12

Project Manager: Nicholas Straccione

	-				
	Lab Id:	444371-007	444371-008	444371-009	
Amother's Dogwood	Field Id:	SP#36"	SP # 3 1'	SP # 3 2'	
Analysis Requested	Depth:	e- In	1- ft	2- ft	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Jun-20-12 07:00	Jun-20-12 07:00	Jun-20-12 07:00	
Inorganic Anions CI by EPA 300/300.1	Extracted:	Jun-26-12 14:29	Jun-26-12 14:45	Jun-26-12 15:01	
SUB: TX104704215	Analyzed:	Jun-26-12 14:29	Jun-26-12 14:45	Jun-26-12 15:01	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		3370 122	8970 114	2380 125	
Percent Moisture	Extracted:				
	Analyzed:	Jun-22-12 12:25	Jun-22-12 12:25	Jun-22-12 16:40	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture		17.7 1.00	12.4 1.00	19.8 1.00	
TPH By SW8015 Mod	Extracted:	Jun-27-12 15:00	Jun-27-12 15:00	Jun-27-12 15:00	
	Analyzed:	Jun-29-12 14:59	Jun-29-12 15:33	Jun-29-12 16:06	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		497 18.2	838 17.1	278 18.7	
C12-C28 Diesel Range Hydrocarbons		1160 18.2	1780 17.1	585 18.7	
C28-C35 Oil Range Hydrocarbons		134 18.2	135 17.1	106 18.7	
Total TPH		1790 18.2	2750 17.1	7.81 696	

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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Mul Ch

Nicholas Straccione Project Manager

### TAT brabnat2 NPDES FedEx Lone Star RUSH TAT (Pra-Schedule) 24, 48, 72 hrs d 2627 DHL Fe As Read ANO Fax: 432-563-1713 M.A.O.N. Phone: 432-563-1800 - TRRP CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST RCI Labels on container(s) Custody seals on container(s) Temperature Upon Receipt: Sample Hand Delivered by Sampler/Client Rep. 7 by Courier? BLEX 8051B/2030 of BLEX 8560 VOCs Free of Headspace? Sample Containers Intact? Custody seals on cooler(s) Analyze For: Laboratory Comments: Standard Vetals: As Ag Ba Cd Cr Pb Hg Se TCLP: TOTAL: Project Loc: Project Name: # Od Mg, Na, K) Project #: Cations (Ca, Report Format: 2007 10.42 9001 XT (\$001 XI Lime Time With Por 14 B2108 M2108 Matrix Date Date Date Other (Specify) Preservation & # of Containers None Gonzales Odessa, Texas 79765 12600 West I-20 East Na2S2O3 HOBN "OS"H HCI EONH Juis 90] otal #. of Containers Field Filtered Fax No: e-mail: 04:01 10.35 Ema 11:30 Time Sampled 100 Received by ELOT Received by Received by: 00-5 R 0.9 6-30 6.30 200 Date Sampled -30 Ending Depth Time 19 **Beginning Depth** 0 C 50 South was Date Xenco Laboratories zis FIELD CODE ARCAD. The Environmental Lab of Texas Sampler Signature: Company Address: Project Manager: Company Name Telephone No: 1.5 City/State/Zip: 7-10 ) 1 Special Instructions: 1 Relinquished by: Relinquished by (lab use only) ORDER #: Relinquished 8 8 8 200 8 80 8 AB # (lab use only) 0 Page 3 of 4



**Hungry Horse Environmental** VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585



Received: Reported: 07/24/2012

07/25/2012

CITIES FEDERAL #2

Project Name: Project Number:

NONE GIVEN

Sampling Date:

Sampling Type:

07/23/2012 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: SP #1 3' BGS (H201713-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					, h. y
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2012	ND	1.85	92.6	2.00	2.92	
Toluene*	<0.050	0.050	07/25/2012	ND	1.83	91.7	2.00	2.09	
Ethylbenzene*	<0.050	0.050	07/25/2012	ND	1.84	92.1	2.00	2.04	
Total Xylenes*	<0.150	0.150	07/25/2012	ND	5.53	92.1	6.00	2.05	

Sairt Gaile. 1 Di onio juno i ocenzene (112	200						
Chloride, SM4500Cl-B	mg	/kg	Analyz	ed By: HM			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	07/25/2012	ND	416	104	400	3.92	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/25/2012	ND	170	85.0	200	9.55	
<10.0	10.0	07/25/2012	ND	176	88.1	200	9.51	
	Result	144 16.0 mg/kg  Result Reporting Limit <10.0 10.0	144         16.0         07/25/2012           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	144         16.0         07/25/2012         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	144         16.0         07/25/2012         ND         416           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	144         16.0         07/25/2012         ND         416         104           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	144         16.0         07/25/2012         ND         416         104         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	144         16.0         07/25/2012         ND         416         104         400         3.92           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane 76.2 % 65.2-140 Surrogate: 1-Chlorooctadecane 97.6% 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keena



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

Received:

07/24/2012

Reported:

07/25/2012

Project Name: Project Number: **CITIES FEDERAL #2** 

Project Location:

NONE GIVEN LEA COUNTY, NM Sampling Date:

07/23/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP #2 7' BGS (H201713-02)

BT	EX	80	21	В

X	8021B	mg/
-		

Anal	yzed	By:	AP

D1271 00222									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2012	ND	1.85	92.6	2.00	2.92	
Toluene*	<0.050	0.050	07/25/2012	ND	1.83	91.7	2.00	2.09	
Ethylbenzene*	<0.050	0.050	07/25/2012	ND	1.84	92.1	2.00	2.04	
Total Xylenes*	<0.150	0.150	07/25/2012	ND	5.53	92.1	6.00	2.05	

Surrogate: 4-Bromofluorobenzene (PIL

104%

89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/25/2012	ND	416	104	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	07/25/2012	ND	170	85.0	200	9.55	
DRO >C10-C28	<10.0	10.0	07/25/2012	ND	176	88.1	200	9.51	

Surrogate: 1-Chlorooctane

73.6 %

65.2-140

Surrogate: 1-Chlorooctadecane

94.2 %

63.6-154

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celey D. Keine



Hungry Horse Environmental **VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received: Reported: 07/24/2012

07/25/2012

Project Name: Project Number: CITIES FEDERAL #2

Project Location:

NONE GIVEN LEA COUNTY, NM Sampling Date:

Sampling Type:

07/23/2012

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP #3 3' BGS (H201713-03)

BTEX 8021B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2012	ND	1.85	92.6	2.00	2.92	
Toluene*	<0.050	0.050	07/25/2012	ND	1.83	91.7	2.00	2.09	
Ethylbenzene*	<0.050	0.050	07/25/2012	ND	1.84	92.1	2.00	2.04	
Total Xylenes*	<0.150	0.150	07/25/2012	ND	5.53	92.1	6.00	2.05	

Surrogate: 4-Bromofluorobenzene (PIL

103 %

89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				1	1.50
Analyte  Chloride	Result	Reporting Limit	Analyzed 07/25/2012	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
				3 May 14 May 19 19 19 19 19 19 19 19 19 19 19 19 19	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					APPE NO
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/25/2012	ND	170	85.0	200	9.55	
DRO >C10-C28	<10.0	10.0	07/25/2012	ND	176	88.1	200	9.51	
Surrogate: 1-Chlorooctane	78.5	% 65.2-14	0						-

Surrogate: 1-Chlorooctane 78.5 % 100 % 63.6-154 Surrogate: 1-Chlorooctadecane

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\*=Accredited Analyte

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Celey D. Keina



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PLEASE MOTE: Liability and analyses. All claims including service. In an eventeball Card	o LESSE (40 TE. Lickely) and Dominges. Continues had also been describe such dress seamed in the any analyses, all chimme including these to includence and any their paper symbolises that the second second is no second in no green that Continue he made the production on consequential demanges, including us	ner stery weather based fred waterd uriess made in food formation, dustiness and	that based as conjuct of left, shall be included to the im is made in within and sendowed by Cardenia within 30 universections picture. Jean of one, is less of profits the	mount each by the chiefe he the Odnys after completion of the appicab curred by effort, its subsidiants	Fig. 1 applicable 1867		
Relinquished By:	igga grad	Rocolv		Phone Res	cuts C Yes C No	Addr Fav B	
` '				REMARKS	1	7	
Relinquished By:		Date: Received By:		1	1112111		

† Cardinal cannot accept verbal chany

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)





Hungry Horse Environmental **VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

07/27/2012

Reported: Project Name: 07/30/2012 CITIES FEDERAL #2

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date: Sampling Type:

07/27/2012

Soil

200

8.91

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PT 1 @ 2' (H201754-01)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	16					1	
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					5
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/30/2012	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	07/27/2012	ND	188	93.8	200	6.58	

ND

204

102

07/27/2012

Surrogate: 1-Chlorooctane 102 % 65.2-140 Surrogate: 1-Chlorooctadecane 115 % 63.6-154

<10.0

10.0

Cardinal Laboratories

DRO > C10-C28

\*=Accredited Analyte

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Celeg D. Keena

Celey D. Keene, Lab Director/Quality Manager

Approved ALL DATA - SAMPLE DATES ENV. Scientist NMOCD-DIST I 7130112

Page 2 of 6



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

07/27/2012

Reported: Project Name: 07/30/2012 CITIES FEDERAL #2

Project Number: Project Location:

NONE GIVEN LEA COUNTY, NM Sampling Date:

07/27/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: PT 2 @ 2' (H201754-02)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2,00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					P
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			150	81	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	<10.0	10.0	07/27/2012	ND	204	102	200	8.91	
Surrogate: 1-Chlorooctane	101 %	65.2-14	0					4	
Surrogate: 1-Chlorooctadecane	111 %	63.6-15-	4						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Qbhf !4!pg7



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received: Reported:

Project Name:

07/27/2012 07/30/2012 CITIES FEDERAL #2

Project Number:
Project Location:

NONE GIVEN LEA COUNTY, NM

/2012

Sampling Date: Sampling Type: 07/27/2012 Soil

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

Sample ID: PT 3 @ 2' (H201754-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-120	5			7		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM				1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
						0	Qualifier
16.0	07/30/2012	ND	400	100	400	0.00	
mg/kg	Analyze	d By: MS		27			
t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	07/27/2012	ND	188	93.8	200	6.58	
10.0	07/27/2012	ND	204	102	200	8.91	
	0 10.0	Ilt Reporting Limit Analyzed 0 10.0 07/27/2012	It Reporting Limit Analyzed Method Blank 0 10.0 07/27/2012 ND	It Reporting Limit Analyzed Method Blank BS 0 10.0 07/27/2012 ND 188	It         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           0         10.0         07/27/2012         ND         188         93.8	It Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 0 10.0 07/27/2012 ND 188 93.8 200	It         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           0         10.0         07/27/2012         ND         188         93.8         200         6.58

Surrogate: 1-Chlorooctane 90.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.1 % 63.6-154

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Celey & Keene

### CARDINAL

101 East Martand, Hobbs, NM 88240

111

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

が大きない ANALYSIS REQUEST E Ver B No Add'I Phone 10.30 107/11 10:30 1x1/12 16.50 Company: Say Latines, 8 - 6 これでいる DATE Iffin: A : Lat. ABHTO Phone #: 0.00 Project Owner: Sh. P. Jan K. Par # 575-391-495 85 State: 1/14 Zip: 363.4/ ŝ (675) 393-2326 FAX (675) 393-2476 Jihe Faces #2 roject Manager: Inches & Biss. Rock Company Name: Wittingery Prorse, List T Cardinal cannot accept verbal changes. Sample I.D. Phone #: 155 DO Bax Sampler - UPS - Bus - Other: Carling St Delivered By: (Circle One) roject Location: Sampler Name; H701754 Project Name: FOR LAB USE ONLY Lab I.D. Project #; Address:



**Hungry Horse Environmental VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

07/25/2012

Sampling Date:

6.35

106

07/25/2012

Reported:

07/26/2012

Sampling Type:

Project Name:

CITIES FEDERAL #2

Sampling Condition:

Soil

6.00

8.26

Project Number:

NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: SP #1 3' BGS (H201722-01)

BTEX 8021B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2012	ND	2.07	104	2.00	10.2	
Toluene*	<0.050	0.050	07/26/2012	ND	2.08	104	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2012	ND	2.12	106	2.00	8.19	

ND

07/26/2012

Total Xylenes\*

< 0.150

0.150

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/26/2012	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					77.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2012	ND	190	94.9	200	4.98	
DRO >C10-C28	<10.0	10.0	07/26/2012	ND	205	102	200	4.10	

Surrogate: 1-Chlorooctane 83.1% 65.2-140 Surrogate: 1-Chlorooctadecane 93.4% 63.6-154

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Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received: Reported: 07/25/2012 07/26/2012

Project Name: Project Number: Project Location: CITIES FEDERAL #2
NONE GIVEN
LEA COUNTY, NM

Sampling Date: Sampling Type: 07/25/2012 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: SP #2 3' BGS (H201722-02)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2012	ND	2.07	104	2.00	10.2	
Toluene*	<0.050	0.050	07/26/2012	ND	2.08	104	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2012	ND	2.12	106	2.00	8.19	
Total Xylenes*	<0.150	0.150	07/26/2012	ND	6.35	106	6.00	8.26	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6					"	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	07/26/2012	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	07/26/2012	ND	190	94.9	200	4.98	
DRO >C10-C28	88.1	10.0	07/26/2012	ND	205	102	200	4.10	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0						T HALL
Surrogate: 1-Chlorooctadecane	103 9	63.6-15	4						

### Sample ID: SP #2 9' BGS (H201722-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	175			1997	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/26/2012	ND	400	100	400	7.69	

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Celey D. Keine



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

Received: Reported: 07/25/2012

Project Name: Project Number: 07/26/2012 CITIES FEDERAL #2 NONE GIVEN

Project Location:

LEA COUNTY, NM

C

Sampling Date: Sampling Type: 07/25/2012

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP #3 3' BGS (H201722-04)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2012	ND	2.07	104	2.00	10.2	
Toluene*	<0.050	0.050	07/26/2012	ND	2.08	104	2.00	9.26	
Ethylbenzene*	<0.050	0.050	07/26/2012	ND	2.12	106	2.00	8.19	
Total Xylenes*	<0.150	0.150	07/26/2012	ND	6.35	106	6.00	8.26	

Surrogate: 4-Bromofluorobenzene (PIC

106 %

89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/26/2012	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	07/26/2012	ND	190	94.9	200	4.98	
DRO >C10-C28	55.1	10.0	07/26/2012	ND	205	102	200	4.10	

Surrogate: I-Chlorooctane

85.9 %

65.2-140

Surrogate: 1-Chlorooctadecane

92.7%

63.6-154

### Sample ID: SP #3 9' BGS (H201722-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM				100000		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	07/26/2012	ND	416	104	400	3.92		

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Celey & Keena



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

Delega K. Stock	P.O. #:				
The second secon	Company:				
State: A. Zip: Zip:	Attn: Ling Book 20 1. 2				
Pack Con-con-cagast	Address:				
Project Owner: Staff Jed F. St	City:		_		
1. W.	Phone #:				
Green K. State	TBX#				
MATRIX	PRESERV SAMPLING	5-61			
SABINA RBTAWON RBTAW	700 PRE:	Hd			
# CONT WASTE SOIL OIL	OTHER OTHER	12			
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	S.M.	***			
	13/50	*			
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PLEASENOTE: Liability and Damages. Cardinate liability and classits attibutive temoch bot any claim attinity whether based is oxide.	act or for a half he smalled in the surround case burner cleans of				
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Relinquishad By:

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

United Cool Interest Condition
Check Cool Interest Check Cool Interest Cool Interes

1 Cardinal cannot accept verbal changes. Please fax written changes to 605-343.645.



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

Termination Pointimation

Received: Reported: 07/27/2012

07/30/2012 CITIES FEDERAL #2

Project Name: Project Number:

NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

07/27/2012 Soil

\*\* (See Notes)

Jodi Henson

### Sample ID: SP #2 11' BGS (H201741-01)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: HM

Analyte

Result Reporting Limit

16.0

Analyzed 07/27/2012

Method Blank ND 8S 400 % Recovery

True Value QC

0.00

Qualifier

Sample ID: SP #3 11' BGS (H201741-02)

Chloride, SM4500Cl-B

ma/k

48.0

Analyzed By: HM

Analyte Result Reporting Limit

Chloride 48.0 16.0

Analyzed 07/27/2012

Method Blank ND BS 400

100

% Recovery

True Value QC 400 0.00

Qualifier

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Arthr	Hers	を通信ができる。 11:00 日本語	ANALYSIS REDITEST
Project Manager:	Becken K. Ring	P. 0.4	
Address:	Po 6ex 105%	Company: nid Read the	
City:	State: N. Zip: See 4	Attn: / 11. (3.	
Phone #: *	5-8366 Fax#STS-497-4485	Address:	
- 1	h	Has one.	
Project Name:	1/2	State: Zip:	
2		Phone #:	
	Trans. T. UNIV.	Fax#:	
FOR LAB USE ONLY	-	MATRIX PRESERV SAMPLING	
Lab I.O.	Sample I.D.	H ()	X 32.
WZO.74	CONT	THER CIDNEY THER THER THER	
	A	7733	
7	TT 3 11 165 6 11	1 11 11 11 11	
PLEASE NOTE: Dablery and Darrages.	PLEASE WOTE: Labelify and Driesses. Cardinal's linking and client available compute for any clean already asset		
analyzes. Al claims including those for en service. In me event shall Carcinal be faith affiliates or successors arising eul ef or re.		The second property of the second control of the second of	
Kelinquished by:	Date: Received By:	Phone Result:	□ No Add'l Fax#:
Relinquished By:	Date: Time:	M A.	
Delivered By: (Circle One)		Condition CHECKED BY:	
Sampler - UPS - Bus - Other;	238		
		NO.	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-2

MM

OC Page: 001

New Mexico One Call

Aocate Request Confirmation Header Code: EMERGENCY

Request Type:

Ticket No: 2012251942 Seq. No: 0

Update of:

Original Call Date: 06/20/2012 Time: 12:22:38 PM OP: 215

Transmit Date: 06/20/2012 Time: 12:33:39 PM Work to Begin Date: 06/20/2012 Time: 02:33:00 PM

Company: HUNGRY HORSE LLC

Contact Name: VERNON BLACK Contact Phone: (575)631-2253
Alternate Contact: DOMINIC HOLGUIN Alternate Phone: (575)631-0566
Best Time to Call: Fax No: (575)391-4585

Cell Phone: Pager No:

Email:

State: NM County: LEA City: RURAL LEA

Address: , CITIES FEDERAL #002 SWD

To Address:

Nearest Intersecting Street: START GPS: N 32.3966 & W -103.2962 2nd Intersecting Street: END GPS: N 32.3941 & W -103.2961

Subdivision:

Latitude: 32.39517950 Longitude: -103.29671950

Zip Code: Grid:

Township: 22S Range: 36E Section 1/4: 18 SE Township: 22S Range: 36E Section 1/4: 18 SW Township: 22S Range: 36E Section 1/4: 18 NE Township: 22S Range: 36E Section 1/4: 18 NW

Location of Work: EMERGENCY SOIL REMEDIATION -- FROM IAL GO S ON MAIN ST - W (R) ON DELAWARE BASIN RD GO 7.7MI - L ON LEASE RD BESIDE THE SWD GO 1/10MI TO POINT OF RELEASE ON THE RIGHT == SPOT AT POINT OF RELEASE MARKED W/WHITE RIBBONS FOLLOWING RELEASE ALONG

Remarks: ROAD - SPOT ROAD AND 10FT ON EACH SIDE OF THE ROAD APPROX 1,400FT - SPOT R.O.W. AT END OF RELEASE - NO HAZARDS - OPEN ACCESS - CREW IS ON SITE

Type of Work: EMERGENCY-SEE REMARKS

Private Property: Street: Overhead Lines: Blasting:

Easement: Mechanical Boring: Premarked: Y

Work Being Done For: SOUTHWEST ROYALTIES

The following utility owners have been notified:

EUNI WNDSTRM SUGS EVJAL 1NMPSO

EUPL

### IMPORTANT CONFIRMATION NOTICE

Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation ticket means you accept responsibility for the accuracy of the information contained in the ticket and you agree to indemnify New Mexico One Call Systems, Inc. of all liability, claims, fees, or damages, including reasonable attorney fees arising from or resulting from the use of the information provided on this confirmation ticket.

New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This request is valid for ten working days. Only the facility owners listed on this ticket will be notified.

You can check the Locate Status of this ticket and request other tickets

Date: 7/16/2012 Time: 7:16 AM To: , 2012290051 @ 915753914585

New Mexico One Call

Locate Request Confirmation Header Code: STANDARD LOCATE

Request Type:

Ticket No: 2012290051 Seq. No: 0

Update of:

Original Call Date: 07/16/2012 Time: 07:04:13 AM OP: 190

Transmit Date: 07/16/2012 Time: 07:14:53 AM Work to Begin Date: 07/18/2012 Time: 07:04:00 AM

Company: HUNGRY HORSE LLC

Contact Name: VERNON BLACK Contact Phone: (575)631-2253

Alternate Contact: Alternate Phone:

Best Time to Call: Fax No: (575)391-4585

Cell Phone: Pager No:

Email:

State: NM County: LEA City: RURAL LEA

Address: , WELL CTIES FEDERAL #2

To Address:

Nearest Intersecting Street: 2nd Intersecting Street:

Subdivision:

Latitude: 32.39519100 Longitude: -103.29663550

Zip Code: Grid:

Township: 22S Range: 36E Section 1/4: 18 NE

Location of Work: FROM EUNICE, GO S. ON NM-207, TRN W. ON DELAWARE BASIN RD GO 7.7MI, L. ON A LEASE ROAD (ON E.SIDE OF SWD) GO 0.1MI TO START OF RELEASE AREA ON R. -SPOT 20FT TO BOTH SIDES OF THE RELEASE AREA AND

THE PRE-EXCAVATED SITE.

Remarks: (GPS: (START)32.3966/ -103.2962; (END)32.3941/

-103.2961) -OPEN ACCESS-

Type of Work: SOIL REMEDIATION

Private Property: Street: Overhead Lines: Blasting:

Easement: Mechanical Boring: Premarked: Y

Work Being Done For: SOUTHERWEST ROYALTIES

The following utility owners have been notified:

SUGS WNDSTRM EUPL

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You can check the Locate Status of this ticket and request other tickets by visiting the our website at www.nmonecall.org.

Date: 7/27/2012 Time: 7:22 AM To: , 2012302881 @ 915753914585 Page: 001

New Mexico One Call

Locate Request Confirmation Header Code: STANDARD LOCATE

Request Type: UPDATE

Ticket No: 2012302881 Seq. No: 0

Update of: 2012290051

Original Call Date: 07/27/2012 Time: 07:18:24 AM OP: 240 Transmit Date: 07/27/2012 Time: 07:22:00 AM Transmit Date: 07/27/2012 Time: Work to Begin Date: 07/31/2012 Time: 07:18:00 AM

HUNGRY HORSE LLC Company:

Contact Name: VERNON BLACK Contact Phone: (575)631-2253

Alternate Contact: Alternate Phone:

Best Time to Call: Fax No: (575)391-4585

Cell Phone: Pager No:

Email:

State: NM County: LEA City: RURAL LEA

, CITIES FEDERAL #2 Address:

To Address:

Nearest Intersecting Street: 2nd Intersecting Street:

Subdivision:

Latitude: 32.39545100 Longitude: -103.29610600

Zip Code: Grid:

Township: 22S Range: 36E Section 1/4: 18 NE

Location of Work: FROM EUNICE, GO S. ON NM-207, TRN W. ON DELAWARE BASIN RD GO 7.7MI, L. ON A LEASE ROAD (ON E.SIDE OF SWD) GO 0.1MI TO START OF RELEASE AREA ON R. --SPOT 20FT TO BOTH SIDES OF THE RELEASE AREA AND

THE PRE-EXCAVATED SITE.

Remarks: (GPS: (START)32.3966/ -103.2962; (END)32.3941/ -103.2961) -OPEN ACCESS- RELOCATE / STILL WORKING

Type of Work: SOIL REMEDIATION

Overhead Lines: Private Property: Street: Blasting:

Mechanical Boring: Premarked: Easement:

Work Being Done For: SOUTHWEST ROYALTIES

The following utility owners have been notified:

SUGS WNDSTRM EUPL

### IMPORTANT CONFIRMATION NOTICE

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