

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

30Jan16

To: Heather Patterson, New Mexico Oil Conservation Division, Dist II
Jim Amos, Bureau of Land Management, Carlsbad District
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Serene Sisters 25 Fed #4
API: 30-015-38312
Legals: UL. N, Sec. 25, T18S, R31E, Eddy County
GPS (Point of Release): 32.7112 -103.8312
NM OCD: 2RP 3141

Site Information

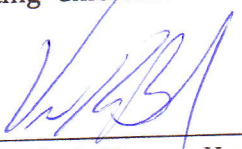
The point of release (POR) is located approximately .9 miles east of Westall Road/CR 249 and 2.5 miles from the south intersection of CR 222 and Westall Road. The POR is 570 yards west/southwest of the well site near a "Y" intersection of lease roads. The area is relatively flat with sparse vegetation and gentle rolling sand dunes. The Eddy County Depth to Groundwater indicates groundwater to be 250'-300'. The New Mexico State Engineer's website list no ground water data for this area.

Work Conducted to Date

The impacted area is approximately 30' x 30'. A delineation was conducted using a hand auger, back-hoe, and due to hard rock, an excavator. One sample point in the middle of the impacted area was selected for soil sampling. All soil samples were filed tested on site for chlorides with selected samples being submitted for lab analysis. (See attached analytical summary and lab results.) Results demonstrate a steady drop in Chlorides from 7'- 21' BGS. TPH nor BTEX were detected in samples.

Proposal

Due to the low Chloride levels between the surface and 3' BGS, I propose to mechanically excavate the impacted area to a depth of 3' BGS and line the excavated area with a synthetic liner and back fill with the excavated material. Thus preventing the downward migration of the existing Chlorides. The impacted area will be seeded using a BLM approved seed mixture.


Vernon K. Black, Hungry Horse, LLC

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NAB1520255168		OPERATOR	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Name of Company Devon Energy Production		Contact Rudy Zuniga	
Address 6488 Seven Rivers Hwy Artesia, NM 88220		Telephone No. 575-390-5435	
Facility Name Serene Sisters 25 Fed 4		Facility Type Oil	
Surface Owner State	Mineral Owner Federal	API No. 30-015-38312	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	25	18S	31E	200	South	1750	West	Eddy

Latitude: N 32° 71' 10.66"

Longitude: W 103° 83' 11.82"

NATURE OF RELEASE

Type of Release Spill PW	Volume of Release 6 bbls	Volume Recovered 0 bbls
Source of Release Leak in water line	Date and Hour of Occurrence 7/17/2015 @ 10:30 AM	Date and Hour of Discovery 7/17/2015 @ 10:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones OCD Jim Amos BLM	NM OIL CONSERVATION ARTESIA DISTRICT JUL 17 2015 RECEIVED
By Whom? Rudy Zuniga	Date and Hour 7/17/2015 @ 12:26 PM 7/17/2015 @ 12:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

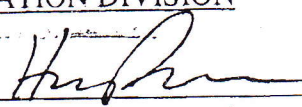
Describe Cause of Problem and Remedial Action Taken.*

On July 17, 2015 at 10:39 AM Rudy Zuniga Devon Energy Production Foreman received a call from Jim Huerta Devon Energy Assistant Production Foreman notifying him that he received a call from Dwayne Concho Lease Operator that there was a leak by the Serene Sisters 25 Fed 4 Battery. Rudy drove to location and found the leak about 1/4 mile from the battery right next to the lease road into the pasture. From what Rudy observed the hole looked like the line had been shot causing the leak of 6 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*

Rudy isolated the line so no more fluid could get out. None of the 6 bbls was recovered. This will have to be assessed for clean up

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Corina Moya	OIL CONSERVATION DIVISION	
Printed Name: Corina Moya	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 7/21/15	Expiration Date: N/A
E-mail Address: corina.moya@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 7/20/2015 Phone: 575.746.5559	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 8/22/15	

* Attach Additional Sheets If Necessary

2RP-3141



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

PLSS Search:

Section(s): 25

Township: 18S

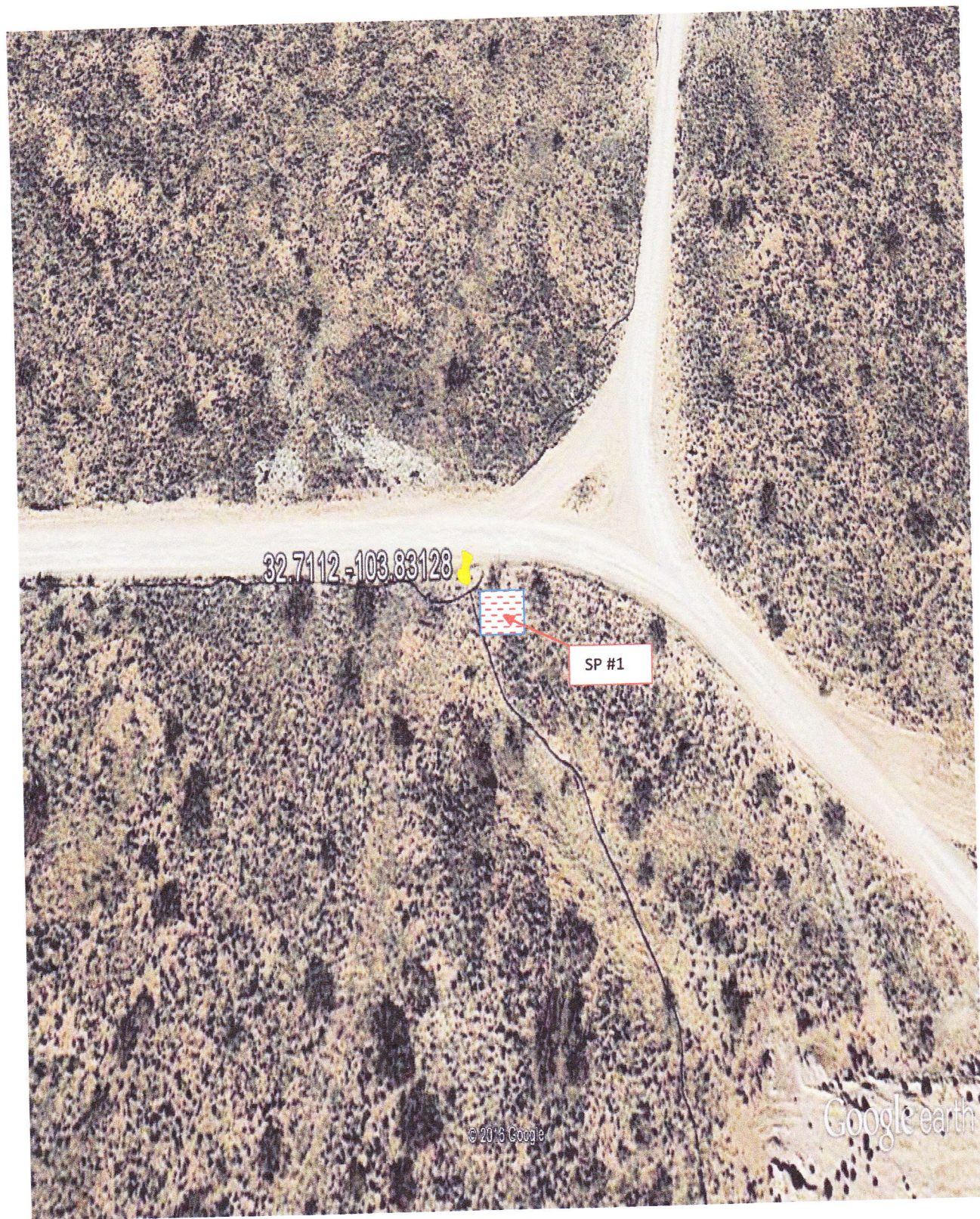
Range: 31E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Devon Energy Production Company-Serene Sisters 25 Fed #4

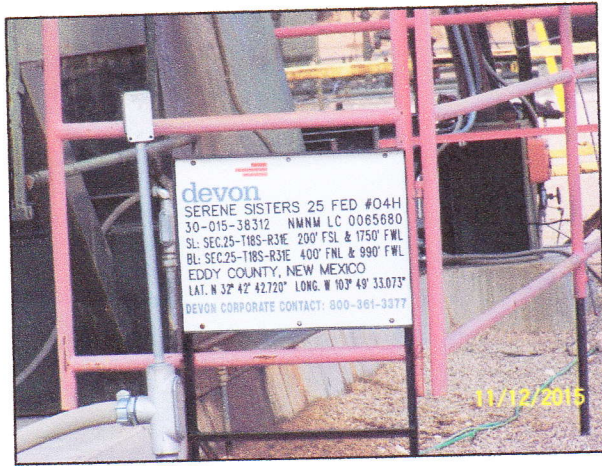


Point of Release is 570 yards west/southwest of well site near lease road intersection.



Impacted area is approximately 30' x 30'.

Devon Energy Production-Serene Sisters 25 Fed #4



Analytical Summary

Operator: Devon Energy Production Company

Location: Serene Sisters 25 Fed #4

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM)

BTEX

Sample Point	Depth	LAB
SP #1	1' BGS	ND
	5' BGS	ND
	7' BGS	ND

Chlorides

Sample Point	Depth	LAB	Field Test
SP #1	1' BGS	288	285
	3' BGS		237
	5' BGS	9200	4715
	7' BGS	12900	11371
	9' BGS		8374
	11' BGS		6475
	13' BGS	8480	7659
	16' BGS	3480	5970
	17' BGS		1587
	19' BGS	3280	2281
	20' BGS	1390	840
	21' BGS	224	ND

Hand Auger Refusal/Backhoe was brought in

Back-hoe Bucket refusal/Excavator was brought in for completion

TPH

Sample Point	Depth	LAB
SP #1	1' BGS	36
	5' BGS	ND
	7" BGS	ND

January 25, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SERENE SISTERS

Enclosed are the results of analyses for samples received by the laboratory on 01/19/16 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/19/2016
Reported: 01/25/2016
Project Name: SERENE SISTERS
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/19/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Amanda Ponce

Sample ID: SP1 @ 1' (H600111-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6		
Toluene*	0.051	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52		
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09		
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58		
Total BTX	<0.300	0.300	01/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	288	16.0	01/20/2016	ND	448	112	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	01/20/2016	ND	191	95.3	200	1.65			
DRO >C10-C28	36.3	10.0	01/20/2016	ND	197	98.7	200	9.16			

Surrogate: 1-Chlorooctane 94.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/19/2016
 Reported: 01/25/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/19/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Amanda Ponce

Sample ID: SP1 @ 5' (H600111-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6	
Toluene*	0.055	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52	
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09	
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58	
Total BTEX	<0.300	0.300	01/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	01/20/2016	ND	448	112	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	01/20/2016	ND	191	95.3	200	1.65	
DRO >C10-C28	<10.0	10.0	01/20/2016	ND	197	98.7	200	9.16	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/19/2016
Reported: 01/25/2016
Project Name: SERENE SISTERS
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/19/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Amanda Ponce

Sample ID: SP1 @ 7' (H600111-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6	
Toluene*	0.054	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52	
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09	
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58	
Total BTX	<0.300	0.300	01/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	01/20/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2016	ND	191	95.3	200	1.65	
DRO >C10-C28	<10.0	10.0	01/20/2016	ND	197	98.7	200	9.16	

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse, LLC				P.O. #:				BILL TO				ANALYSIS REQUEST							
Project Manager: Vernon K. Black				Company:				Attn:				Address:							
Address: PO Box 1058				State: NM				Zip: 88241				City:							
Phone #: 575-631-2253				Fax #: 575-391-4585				Address:				City:							
Project #:				Project Owner: Devon				State:				Zip:							
Project Name: Serene Sisters				Phone #:				State:				Zip:							
Project Location: Serene Sisters Eddie County				Phone #:				State:				Zip:							
Sampler Name: Vernon K. Black				Fax #:				State:				Zip:							
Lab I.D.				Sample I.D.				Matrix				PRESERV.				SAMPLING			
400011 1 2 3				Point of Release SPI 1' SPI 5' SPI 7'				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER				Time DATE 9:00 1/19/16 9:50 10:00				Chlorides BTEX TPH			
FOR LAB USE ONLY				# CONTAINERS				(G) RAB OR (C) OMP				Time DATE				Time DATE			
Relinquished By: [Signature]				Date: 1-19-16				Received By: [Signature]				Time: 2:53 pm				Time: 2:53 pm			
Relinquished By: [Signature]				Date: 1-19-16				Received By: [Signature]				Time: 2:53 pm				Time: 2:53 pm			
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Relinquished By: [Signature]				Date: 1-19-16				Received By: [Signature]				Time: 2:53 pm				Time: 2:53 pm			
Relinquished By: [Signature]				Date: <															

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

January 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SERENE SISTERS

Enclosed are the results of analyses for samples received by the laboratory on 01/28/16 17:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/28/2016
 Reported: 01/29/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 13' (H600214-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	01/29/2016	ND	416	104	400	3.92	

Sample ID: SP 1 16' (H600214-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	01/29/2016	ND	416	104	400	3.92	

Sample ID: SP 1 19' (H600214-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	01/29/2016	ND	416	104	400	3.92	

Sample ID: SP 1 20' (H600214-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	01/29/2016	ND	416	104	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/28/2016
Reported: 01/29/2016
Project Name: SERENE SISTERS
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/28/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 1 21' (H600214-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/29/2016	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse, LLC
Project Manager: Vernon K. Black
Address: PO Box 1058 State: NM Zip: 88241
City: Hobbs Phone #: 575-631-2253 Fax #: 575-391-4585
Project #: _____ Project Owner: Dewon
Project Name: Serene Sisters 25 Fed #4
Project Location: Eddie
Sampler Name: Vernon K. Black

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H000214
1 13'
2 16'
3 14'
4 20'
5 21'

MATRIX

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

SLUDGE

OTHER:

ACID/BASE

ICE / COOL

OTHER:

PRESERV

SAMPLING

DATE TIME

1-28-16 9:00

1:10

1:40

2:15

3:00

Chlorides

ANALYSIS REQUEST

BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Phone Result:

Fax Result:

REMARKS:

Date: 1-28-16

Time: 5:07

Date:

Time:

Relinquished By: [Signature]

Relinquished By:

Date:

Time:

Sample Condition

Cool Intact

Yes No

CHECKED BY:

(Initials)

[Signature]

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476