

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

22Feb16

To: Heather Patterson, New Mexico Oil Conservation Division, District 2
Jim Amos, Bureau of Land Management
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Ross Ranch 10 Fed #1 SWD
API: 30-015-29605
Legals: UL. H, Sec. 10, T26S, R31E, Eddy County
GPS: 32.0592, -103.7590
NM OCD: 2RP 3427

Site information

This location is on the south side of Pipe Line Road five miles west of the intersection of Pipe Line Road and CR 1/Orla Highway. The area around the site is relatively flat with a heavy concentration of mesquite and creosote bushes. Based upon the Eddy County Depth to Groundwater Map, depth to groundwater is 275'. The New Mexico Office of the State Engineer's website list no groundwater data for this area.

The impacted area is on the south side of the battery at the edge of the pad and is approximately 15' x 20'. The release is the result of a failed fitting.

Work Conducted to Date

A delineation using a hand auger was attempted which resulted in auger refusal at 7' BGS. Soil samples were field tested for chlorides with the surface and one foot samples being selected for lab analysis. Further delineation was conducted the following week with a backhoe. Soil samples at 9' and 11' BGS were field tested for chlorides and field test indicated levels below closure limits. These samples were selected for lab analysis and the lab results supported the field test. (See attached analytical summary and lab analysis.)

Proposal

I propose to excavate the impacted area, approximately 15' x 20', to a depth of 3' BGS and install a synthetic liner in order to prevent the downward migration of the Chlorides. Due to the low chloride level between the surface and 3' BGS, I propose to use the excavated material for backfill.



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

NAB1533752388

OPERATOR <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report	
Name of Company Devon Energy Production 4137	Contact Garry Michael, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-513-4895
Facility Name Ross Ranch 10 Fed 1 SWD	Facility Type SWD
Surface Owner Federal	Mineral Owner Federal
API No. 30-015-29605	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line East	County Eddy
H	10	26S	31E					

Latitude: 32.059235486

Longitude: -103.75905787

NATURE OF RELEASE

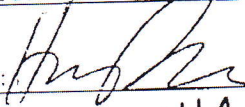
Type of Release Produced Water Release	Volume of Release 10bbls	Volume Recovered 8bbls
Source of Release Disposal Pump	Date and Hour of Occurrence November 24, 2015 1:46 PM	Date and Hour of Discovery November 24, 2015 1:46 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson, OCD Jim Amos, BLM	
By Whom? David Washington, Assistant Production Foreman	Date and Hour Heather Patterson, OCD November 24, 2015 1:05 PM Jim Amos, BLM November 24, 2015 1:35 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
A stainless steel fitting on the salt water disposal pump leaked at the connection to the ball valve releasing approximately 10bbls produced water. All valves on the stainless steel line connected to the pump were immediately closed to stop the release. The stainless steel fitting on the salt water disposal pump has been repaired.

Describe Area Affected and Cleanup Action Taken.*
The spill was approximately 10' x 15' area located on the Southwest corner of the location next to the salt water disposal pump. 10bbls produced water was released and 8bbls were recovered with no fluid leaving location. Environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: Sheila Fisher		OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher		Approved by Environmental Specialist: 	
Title: Field Admin Support		Approval Date: 12/3/15	Expiration Date: N/A
E-mail Address: Sheila.Fisher@dvn.com		Conditions of Approval: <input type="checkbox"/> Attached <input type="checkbox"/>	
Date: 12/1/15 Phone: 575.748.1829			

NM OIL CONSERVATION DIVISION
REMEDIAL ACTION per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 11/3/16

* Attach Additional Sheets If Necessary

DEC 02 2015

RECEIVED

2RP-3427



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

No records found.

PLSS Search:

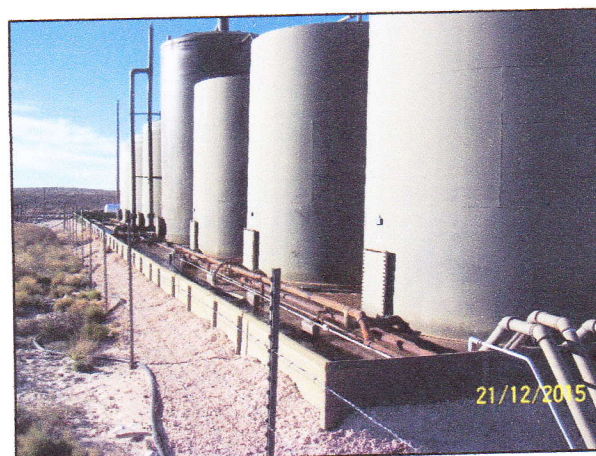
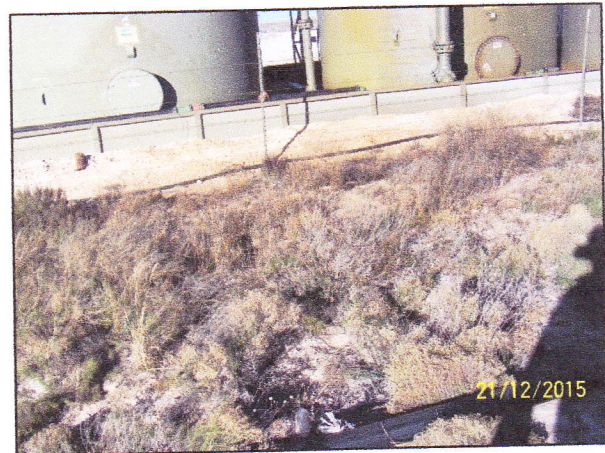
Section(s): 10

Township: 26S

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-Ross Ranch 10 Fed #1



Devon Energy Production Company-Ross Ranch 10 Fed #1



Impacted area is approximately 15' x 20' .

Analytical Summary

Operator: Devon Energy Production Company

Location: Ross Ranch 10 Fedf #1

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

BTEX

Sample Point	Depth	LAB
SP #1	Surface	ND
	1' BGS	ND
	9' BGS	ND
	11' BGS	ND

Chlorides

Sample Point	Depth	LAB	Field Test
SP #1	Surface	ND	ND
	1' BGS	80	ND
	3' BGS		642
	5' BGS		1458
	7' BGS		1587
	9' BGS	96	78
	11' BGS	48	ND

Encounter hard rock/hand auger refusal at 7' BGS

TPH

Sample Point	Depth	LAB
SP #1	Surface	553
	1' BGS	14
	9' BGS	ND
	11' BGS	ND

January 21, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ROSS RANCH 10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 15:55.

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: 01/18/2016
Reported: 01/21/2016
Project Name: ROSS RANCH 10 FED #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP #1 SURFACE (H600099-01)

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/20/2016	ND	432	108	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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	553	10.0	01/19/2016	ND	179	89.5	200	4.37	

Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 93.6 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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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: 01/18/2016
Reported: 01/21/2016
Project Name: ROSS RANCH 10 FED #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/18/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP #1 1' BGS (H600099-02)

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEx	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	80.0	16.0	01/20/2016	ND	432	108	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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	13.8	10.0	01/19/2016	ND	179	89.5	200	4.37	

Surrogate: 1-Chlorooctane 87.0 % 35-147

Surrogate: 1-Chlorooctadecane 94.5 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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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

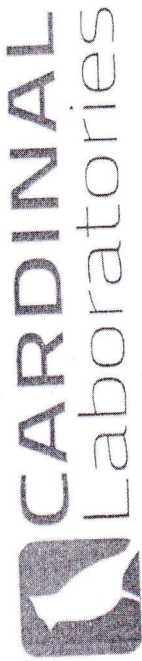
* = Accredited Analyte

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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

BILL TO				ANALYSIS REQUEST											
P.O. #:															
Company:															
Attn:															
Address:															
City:															
State:															
Phone #:															
Fax #:															
Company Name: Hungry Horse, LLC															
Project Manager: Vernon K. Black															
Address: PO Box 1058															
City: Hobbs															
Phone #: 575-631-2253															
Project #: 10 Fed #1															
Project Name: Ross Ranch															
Project Location: Eddy County															
Sampler Name: Vernon K. Black															
FOR LAB USE ONLY															
Lab I.D.															
Sample I.D.															
SP#1 Surface															
SP#1 11BGS															
DATE															
TIME															
10/14/00															
X															
70H															
BTX															
CHLORIDER															

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 the client for the 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 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 services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated causes of otherwise.

Relinquished By: <i>[Signature]</i>	Date: 10/14/00	Received By: <i>[Signature]</i>	Date: 10/14/00
Time: 5:55	Time: 5:55	Time: 5:55	Time: 5:55
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

REMARKS:
Samples Bought Straight from Field

January 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ROSS RANCH 10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/26/16 11:06.

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: 01/26/2016
 Reported: 01/29/2016
 Project Name: ROSS RANCH 10 FED #1
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/25/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-2 9' (H600178-01)

Sample ID: 0125 (BTEX)

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	01/27/2016	ND	1.89	94.6	2.00	7.17		
Toluene*	<0.050	0.050	01/27/2016	ND	1.86	93.0	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2016	ND	1.69	84.4	2.00	7.83		
Total Xylenes*	<0.150	0.150	01/27/2016	ND	5.21	86.8	6.00	7.67		
Total BTEX	<0.300	0.300	01/27/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	96.0	16.0	01/27/2016	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	01/27/2016	ND	199	99.3	200	3.47			
DRO >C10-C28	<10.0	10.0	01/27/2016	ND	190	95.0	200	4.27			

Surrogate: 1-Chlorooctane 70.2 % 35-147

Surrogate: 1-Chlorooctadecane 70.0 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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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: 01/26/2016
Reported: 01/29/2016
Project Name: ROSS RANCH 10 FED #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/25/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP Z 11' (H600178-02)

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	01/27/2016	ND	1.89	94.6	2.00	7.17			
Toluene*	<0.050	0.050	01/27/2016	ND	1.86	93.0	2.00	7.21			
Ethylbenzene*	<0.050	0.050	01/27/2016	ND	1.69	84.4	2.00	7.83			
Total Xylenes*	<0.150	0.150	01/27/2016	ND	5.21	86.8	6.00	7.67			
Total BTEX	<0.300	0.300	01/27/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 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	48.0	16.0	01/27/2016	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	01/27/2016	ND	199	99.3	200	3.47			
DRO >C10-C28	<10.0	10.0	01/27/2016	ND	190	95.0	200	4.27			

Surrogate: 1-Chlorooctane 62.8 % 35-147

Surrogate: 1-Chlorooctadecane 61.0 % 28-171

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 293-2326 FAX (575) 393-2476

BILL TO		ANALYSIS REQUEST	
Company Name: Hungry Horse, LLC Project Manager: Vernon K. Black Address: PO Box 1058 City: Hobbs State: NM Zip: 88241 Phone #: 575-631-2253 Fax #: 575-391-4585 Project #: Project Name: Moss Ranch 10 fed #1 Project Location: Eddie County Sampler Name: Vernon K Black		P.O. #: Company: Attn: Address: City: State: Phone #: Fax #:	
Lab I.D. H100078 SP2 9' 2 SP2 11'		Sample I.D. Chlorides BTEX TPH	
MATRIX WASTEWATER GROUNDWATER # CONTAINERS (G)RAB OR (C)OMP		PRESERV OTHER: SLUDGE OTHER: ICE / COOL ACID/BASE OTHER:	
DATE 1-25-11 1-25-11		TIME 11:00 11:30	
FOR LAB USE ONLY		REMARKS:	

Relinquished By: *Allyson B...*

Relinquished By: *Spadi Henson*

Date: 1-26-15
Time: 11:06

Date: *1-26-15*
Time: *11:06*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☐

Checked By: *[Signature]*

Initials: *[Signature]*

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising hereunder shall be limited to the amount paid by the client for the analyses. 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 services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated theories or otherwise.

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