

Remediation Summary Report

General Information

This summary report address the remediation efforts at Wishbone Operating's HH Harris #2 location located in northeastern Lea County, New Mexico. Equipment failure resulted in the unplanned release of approximately 40 bbls of water/oil.

INFORMATION ONLY

Date: 31July17

Client: Wishbone Operating

Site Name: HH Harris #2

API: 30-025-20931

Site Coordinates

Latitude: 33.2297

Longitude: -103.0658

County: Lea

State: New Mexico

Legals: UL. O, Sec. 35, T12S, R38E

Property Owner: Private

New Mexico Oil Conservation Division RP No.: 1RP-4543

Release Description and Assessment

Date of Spill: 19Dec16

Type of Spill: Oil Produced Water Condensate Other (Specify):

Cause of Spill: Equipment Failure Valve Failure Line Rupture Leaking Tank Tank Overfill

Other (Specify):

Other Contributing Factors or Comments: N/A

Quantity Spilled: 40 bbls

Quantity Recovered: 20 bbls

Total Released: 20 bbls

Method of Recovery: Vacuum Truck Other (Specify):

New Mexico Oil Conservation Division Notified: Yes No

C-141 Completed and Submitted: Yes No Not Required

Spill Area Impacted: Inside Firewall On Production Pad In Pasture In Cultivated Land

Other (Specify):

Other Comments: N/A

Remediation Activity Summary

Remedial remediation upon discovery of the release was conducted by a vacuum truck and a third party contractor with a backhoe and consisted of removing all free standing fluid and excavation and stockpiling the heavily saturated soil. Upon completion of initial remediation efforts, focus was placed on the final excavation and sampling for closure approval. Most work was conducted on the east and west boundaries of the impacted site with extensive soil sampling of the impacted area. Confirmation sampling of east and west side walls and bottom hole samples confirm the impacted area is remediated. Further confirmation sampling of the excavated areas was conducted at 7' and 12' BGS with lab results indicating not further downward migration of contaminants had occurred.

Request approval to close and backfill.


Vernon K. Black, Hungry Horse, LLC

Analytical Summary

Operator: Wishbone Operating

Location: HH Harris #2

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

Lab ID #701841

Chlorides

Sample Point	Depth	LAB
West Side Wall		16 ppm
West Side Bottom Hole	6'	16 ppm

West Side
Side Wall
+
Bottom Hole

Sample Date 14 July 17



July 24, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS

Enclosed are the results of analyses for samples received by the laboratory on 07/17/17 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	H-H HARRIS	Sampling Condition:	** (See Notes)
Project Number:	WESTSIDE	Sample Received By:	Tamara Oldaker
Project Location:	<i>West</i> WISHBONE OPER.		

Sample ID: SIDE WALL (H701841-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/17/2017	ND	432	108	400	0.00		

Sample ID: BOTTOMHOLE (H701841-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/17/2017	ND	432	108	400	0.00		

Cardinal Laboratories

* = 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

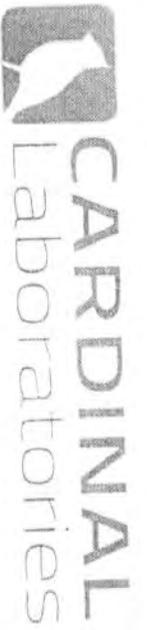
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*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: **Hungry Horse, LLC**
 Project Manager: **Vernon K. Black**
 Address: **P.O. Box 1058**
 City: **Hobbs** State: **NM** Zip: **88241**
 Phone #: **575-393-3388** Fax #: **575-391-4585**
 Project #: _____ Project Owner: **Wishbone**
 Project Name: **H Harris**
 Project Location: _____
 Sampler Name: **Alberto Baraza**

P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	BOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	1	2	3	4	5	6	7	8	9	10
H70184H	(west side)	G	1			X							7-14-17	9:00	X									
	↳ Side wall																							
	↳ Bottom Hole																							

Requisitioned By: _____ Date: **7-17-17** Received By: _____
 Time: _____

Requisitioned By: *[Signature]* Date: **7-17-17** Received By: *[Signature]*
 Time: **8:05**

Delivered By: (Circle One) **13.88** Received By: *[Signature]*
 Time: **8:05**

Sampler - UPS - Bus - Other: **Corrected 14:05** **79.75**
 Cool Intact Yes No
 Leak/Contaminated Yes No

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: _____

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Analytical Summary

Operator: Wishbone Operating

Location: HH Harris #2

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

Lab ID #701551

BTEX

Sample Point	Depth	LAB
East Side	7' BGS	ND
	12' BGS	ND
West Side	7' BGS	ND
	12' BGS	ND
West Side Bottom Hole	4'	ND

Chlorides

Sample Point	Depth	LAB
East Side	7' BGS	256 ppm
	12' BGS	304 ppm
West Side	7' BGS	305 ppm
	12' BGS	560 ppm
West Side Bottom Hole	4'	1200 ppm

TPH

Sample Point	Depth	LAB
East Side	7' BGS	ND
	12' BGS	ND
West Side	7' BGS	ND
	12' BGS	ND
West Side Bottom Hole	4' BGS	ND

Confirmation
Samples

Sample Date 13 Jun 17



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

June 19, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS

Enclosed are the results of analyses for samples received by the laboratory on 06/13/17 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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: 06/13/2017
 Reported: 06/19/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 06/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST 7' (H701551-01)

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/14/2017	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	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		

Surrogate: 1-Chlorooctane 88.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.9 % 34.7-157

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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: 06/13/2017
 Reported: 06/19/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 06/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST 12' (H701551-02)

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.6% 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/14/2017	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	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		

Surrogate: 1-Chlorooctane 96.0% 28.3-164

Surrogate: 1-Chlorooctadecane 80.7% 34.7-157

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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: 06/13/2017
 Reported: 06/19/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 06/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 7' (H701551-03)
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	06/14/2017	ND	2.38	119	2.00	0.885	
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422	
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03	
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37	
Total BTEX	<0.300	0.300	06/14/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.8 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/14/2017	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	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	

Surrogate: 1-Chlorooctane 91.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.3 % 34.7-157

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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: 06/13/2017
 Reported: 06/19/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 06/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 12' (H701551-04)

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.3 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	06/14/2017	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	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		

Surrogate: 1-Chlorooctane 97.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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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: 06/13/2017
 Reported: 06/19/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 06/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE (H701551-05) West

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	06/14/2017	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	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		

Surrogate: 1-Chlorooctane 90.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.7 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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

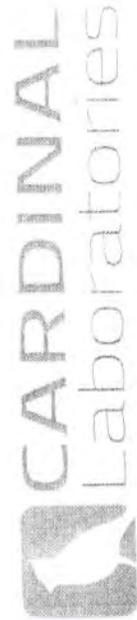
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*=Accredited Analyte

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Caley 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																		
Company Name:	H. H. Harris	P.O. #:																		
Project Manager:	H. H. Harris	Company:																		
Address:	101 East Marland	Attn:																		
City:	Hobbs	Address:																		
Phone #:	505-393-2326	City:																		
State:	NM	State:																		
Zip:	88240	Phone #:																		
Fax #:	505-393-2476	Fax #:																		
Project Owner:	Wisbone	MATRIX																		
Project Name:	H. H. Harris	WASTEWATER																		
Project Location:		GROUNDWATER																		
Sampler Name:		# CONTAINERS	6																	
Lab I.D.	H701551	IGRAB OR (DOM)																		
Sample I.D.	1 East 7' 2 East 12' 3 West 7' 4 West 12' 5 Bottom hole west	DATE	6-13-17																	
		TIME	9:00am																	
		OTHER																		
		ACID/BASE																		
		ICE / COOL	X																	
		OTHER																		
		BLADDER																		
		DE	X																	
		OTHER																		
		DATE	6-13-17																	
		TIME	9:00am																	
		OTHER																		
		ACID/BASE																		
		ICE / COOL	X																	
		OTHER																		
		BLADDER																		
		DE	X																	
		OTHER																		

PLEASE NOTE: Samples and Drainers... (Small text regarding sample handling and analysis procedures)

Relinquished By: *[Signature]* Date: 6-13-17 Time: 4:10

Received By: *[Signature]* Date: 6-13-17 Time: 4:10

Relinquished By: *[Signature]* Date: 6-13-17 Time: 4:10

Received By: *[Signature]* Date: 6-13-17 Time: 4:10

Delivered By: (Circle One) Bus Other

Sampler - UPS - Bus - Other

Phone Result: Yes No Yes No Yes No Yes No

Fax Result: Yes No Yes No Yes No Yes No

Additional Phone #:
 Additional Fax #:
 REMARKS:
 [Handwritten notes]

Analytical Summary

Operator: Wishbone Operating

Location: HH Harris #2

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

Lab ID #701429

Chlorides

West Wall		ND
West Bottom Hole	4' BGS	ND
East Wall		49 ppm

Wall & Bottom Hole
Samples after further
excavation of walls

Sample Date 26 May 17



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

June 02, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS

Enclosed are the results of analyses for samples received by the laboratory on 05/30/17 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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: 05/30/2017
 Reported: 06/02/2017
 Project Name: H-H HARRIS
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 05/26/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WEST WALL (H701429-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/02/2017	ND	432	108	400	0.00		

Sample ID: WEST BOTTOM HOLE (H701429-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/02/2017	ND	432	108	400	0.00		

Sample ID: EAST WALL (H701429-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/02/2017	ND	432	108	400	0.00		

Cardinal Laboratories

* = 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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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>4</u> Project Manager: Address: <u>101 East Marland</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: <u>505-393-2326</u> Fax #: <u>505-393-2476</u> Project #: <u>101</u> Project Owner: <u>Cardinal</u> Project Name: <u>H-11 Harris</u> Project Location: <u>Lea County</u> Sampler Name: <u>C</u>		P.O. #: Company: Address: City: State: Zip: Phone #: Fax #:		BILL TO ANALYSIS REQUEST	
Lab I.D.: <u>H701429</u> Sample I.D.: <u>West Coyall</u> <u>1/2 West Bohonohole East Coyall</u>	MATRIX (GIRAS OR ICOM) # CONTAINERS GROUNDWATER WASTEWATER SOIL SLEET OTHER	PRESERV ICE/COOL OTHER	DATE <u>5-26-17</u>	TIME <u>12:30</u>	REMARKS: <u>X</u>
Relinquished By: <u>Blank</u> Date: <u>5-30-17</u> Time: <u>3:20-17</u>	Received By: <u>Jodi Jensen</u> Date: <u>5-26-17</u>	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>	Phone Result: Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Phone #: Add'l Fax #:	CHECKED BY: <u>[Signature]</u>
Delivered By: (Circle One) UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other <input checked="" type="checkbox"/> <u>#75</u> Time: <u>15:30</u>	Delivered To: <u>[Signature]</u>	Delivered By: <u>[Signature]</u>	Delivered To: <u>[Signature]</u>	Delivered By: <u>[Signature]</u>	Delivered To: <u>[Signature]</u>

Analytical Summary

Operator: Wishbone Operating

Location: HH Harris #2

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

Lab ID #701323

Chlorides

Sample Point	Depth	LAB
West Side	12' BGS	96 ppm
East Side	12' BGS	48 ppm
West Wall		2530 ppm
East Wall		320 ppm
West Side	4'	2080 ppm
East Side	4	32 ppm

Sample Date 17 May 17



May 18, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS #2

Enclosed are the results of analyses for samples received by the laboratory on 05/17/17 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 05/17/2017
 Reported: 05/18/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 05/17/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: 12 BGS WESTSIDE (H701323-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/18/2017	ND	448	112	400	3.64		

Sample ID: 12 BGS EASTSIDE (H701323-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2017	ND	448	112	400	3.64		

Sample ID: EAST WALL 5' OUT 2ND (H701323-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/18/2017	ND	448	112	400	3.64		

Sample ID: WEST WALL 5' OUT 4TH (H701323-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	05/18/2017	ND	448	112	400	3.64		

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: 05/17/2017
 Reported: 05/18/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 05/17/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WEST BOTTOM HOLE (H701323-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	05/18/2017	ND	448	112	400	3.64		

Sample ID: EAST BOTTOM HOLE (H701323-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2017	ND	448	112	400	3.64		

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*=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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Celey D. Keene, Lab Director/Quality Manager

Analytical Summary

Operator: Wishbone Texas Operating, LLC

Location: H H Harris #2 Confirmation Sampling 24-Apr-17

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

Lab ID# H701083

BTEX

Sample Point	Depth	LAB
SP #1	12'	ND
SP #2	12'	ND
SP #3	12'	ND
North Wall	2'	ND
South Wall	2'	ND
East Wall	2'	ND
West Wall	2'	ND
BackGround	6"	ND

Chlorides

Sample Point	Depth	LAB
SP #1	12'	208 ppm
SP #2	12'	240 ppm
SP #3	12'	160ppm
North Wall	2'	144 ppm
South Wall	2'	240 ppm
East Wall	2'	2440 ppm
West Wall	2'	29600 ppm
BackGround	6"	32 ppm

TPH

Sample Point	Depth	LAB
SP #1	12'	ND
SP #2	12'	ND
SP #3	12'	154 ppm
North Wall	2'	412 ppm
South Wall	2'	755 ppm
East Wall	2'	422ppm
West wall	2'	230 ppm
BackGround	6"	ND

#1 Sampling After
initial EXCAVATION

Sample Date 24Apr17

May 01, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS #2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/17 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP1 (H701083-01)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/27/2017	ND	416	104	400	3.77		

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	04/25/2017	ND	201	101	200	6.71		
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	210	105	200	4.91		

Surrogate: 1-Chlorooctane 96.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.4 % 34.7-157

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:	04/24/2017	Sampling Date:	04/24/2017
Reported:	05/01/2017	Sampling Type:	Soil
Project Name:	H-H HARRIS #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	WISHBONE OPER,		

Sample ID: SP2 (H701083-02)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/27/2017	ND	416	104	400	3.77		

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	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 90.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.9 % 34.7-157

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: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP3 (H701083-03)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/27/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	154	50.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 89.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.6 % 34.7-157

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: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NORTH (H701083-04)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/27/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	412	50.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 81.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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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: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH (H701083-05)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.4 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/27/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	755	50.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 85.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Analytical Results For:

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

 Received: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EAST (H701083-06)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.5 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	04/27/2017	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	422	50.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 75.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.9 % 34.7-157

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 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WEST (H701083-07)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	29600	16.0	04/27/2017	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	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	230	10.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.0 % 34.7-157

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 Received: 04/24/2017
 Reported: 05/01/2017
 Project Name: H-H HARRIS #2
 Project Number: NONE GIVEN
 Project Location: WISHBONE OPER.

 Sampling Date: 04/24/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: PASTURE (H701083-08)

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	04/27/2017	ND	2.08	104	2.00	0.841		
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586		
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15		
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03		
Total BTEX	<0.300	0.300	04/27/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/27/2017	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	04/25/2017	ND	211	105	200	3.68		
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	107	200	6.38		

Surrogate: 1-Chlorooctane 84.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.6 % 34.7-157

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

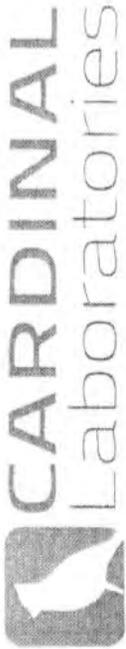
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC Project Manager: Veronica K. Albrecht Address: PO Box 1058 City: Hobbs State: NM Zip: 88241 Phone #: 575 631-2253 Fax #: 575 391-4385 Project #: Project Name: H-Harris lease 2 Project Location: Leasantry Sampler Name: Veronica K Albrecht		BILL TO P.O. #: Company: Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST	
MATRIX # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER		PRESERV DATE TIME 4-24-17 8:00		SAMPLING CI TPH BTEX	
Lab I.D. H701083 1 2 3 4 5 6	Sample I.D. H H Harris SP1 SP2 SP3 North South East West PASTURE				

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Relinquished By: *[Signature]* Date: 4-24-17 Time: _____
 Received By: _____ Date: 4-24-17 Time: 12:05
 Checked By: *[Signature]* (Initials) T.O.#75
 Sample Condition: Cool Yes No Intact Yes No
 Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Brought Straight from field to Lab