## **Remediation Summary Report Form**

### **General Information**

This report prepared by Hungry Horse, LLC on 16Jan15, is in response to the release for Mewbourne Oil Company at the Waltersheid #1, located in Eddy County, New Mexico for the release that was discovered on 5Aug14, releasing an unknown volume of gas due to the failure of a hammer union.

Date: 16Jan15

Client: Mewbourne Oil Company

Site Name: Waltersheid #1

County: Eddy

State: New Mexico

**Site Coordinates** 

Latitude: 32.3940

Longitude: -104.1687

Property Owner: Gary Waltersheid

NM OCD: 2RP-2469

Release Description and Assessment

The information below is related to the spill (Date, Type, Cause, and Quantity) and the area impacted.

Date of Spill: Unknown/Discovered 5Aug14

Type of Spill:

Oil

Produced Water

Condensate

X Other (Specify): Gas

Cause of Spill: Equipment Failure

Valve Failure Line Rupture

Leaking Tank

Tank Overfill

X Other (Specify): Hammer Union developed a leak

Other Contributing Factors or Comments: N/A

Quantity Spilled: Unknown

Quantity Recovered: 0

Total Released: Unknown

Method of Recovery: N/A

Vacuum Truck

Other (Specify):

C-141 Completed and Submitted: X Yes No

NM OCD Notified: X Yes

Inside Firewall On Production Pad

Spill Area Impacted:

In Pasture

X In Cultivated Land

Other (Specify):

Total Square Foot Impacted: Approximately 2,285 Estimated Depth: 12' Volume (Cu. Yards): 1,100

Other Comments:

### **Remediation Activity Summary**

The following summarizes the activities used to remediate the spill.

No

The impacted areas were alfalfa fields on each side of Grandi Road approximately 400 yards south of the Waltersheid farm house/shop. Both the east and west side of Grandi Road were impacted. The work area was divided into two areas, the east side and west of the road. Work conducted on each side was virtually the same. Both sides were excavated to a depth of approximately 12' BGS. Impacted material was stockpiled on plastic and then transported to a division approved facility for disposal. Ground water was encounter at approximately 12' BGS. A ground water sample along with soil samples from the excavations were collected and lab analysis conducted. Lab results indicated elevated levels of chlorides, but TPH and BTEX levels were below closure limits. Lab results were presented to NM OCD's Mike Bratcher. He recommended obtaining a groundwater sample form an alternate excavation to the west of the current site in order to confirm the fact that the shallow ground water in this area does contain elevated chloride levels. A site approximately 800' to the southwest was selected and the ground water sample confirmed the elevated chloride levels in the ground water. Closure approval was granted by NMCOD's Heather Patterson. Fresh soil from a local source was used for backfill. The area was backfilled to grade, leveled and will be planted by the farmer.

Vernon K. Black, Hungry Horse, LLC

### **NM OIL CONSERVATION**

SEP 0 3 2014

ARTESIA DISTRICT

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

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 RECEIVED ance with 19.15.29 NMAC.

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Surface Ow	vner Privat	te .		Mineral (	Owner P	rivate			APINO	. 30-013-2	311/	
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NM OCD.	2											
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should their	operations i	nave lance to addition. NM(	OCD accer	ptance of a C-141	report d	ues not reliev	e the operator of	responsi	bility for c	ompliance	with an	y other
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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

\* Attach Additional Sheets If Necessary

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

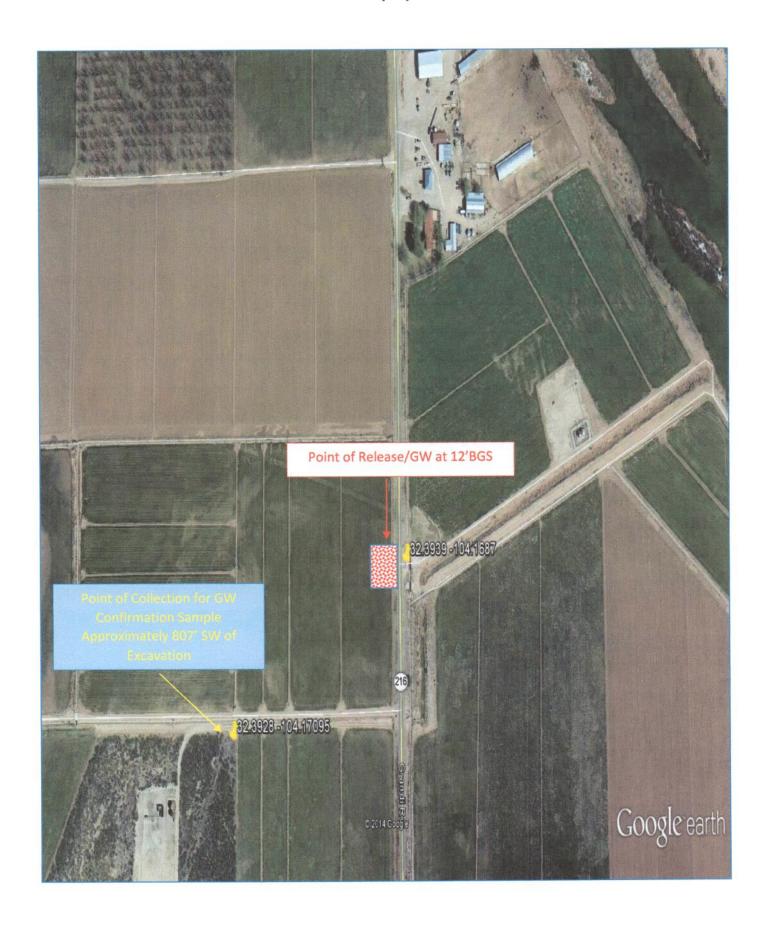
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Name of Co						<b>OPERA</b>	TOR		Init	al Report X	Final Repor
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Surface Ow	ner Privat	е									
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### Mewbourne Oil Company-Waltersheid #1





August 12, 2014

**VERNON BLACK** 

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WALTERSHEID #1

Enclosed are the results of analyses for samples received by the laboratory on 08/07/14 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Soil Samples Prior to Excaustion



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

Fax To:

(505) 391-4585

Received: Reported: 08/07/2014

08/12/2014

Sampling Date: Sampling Type: 08/07/2014

Project Name:

WALTERSHEID #1

Sampling Condition:

Soil \*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: W SIDE OF ROAD 8' BGS (H402435-01)

BTEX 8021B	mg	/kg	Analyze	d By: CK					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/11/2014	ND	1.95	97.4	2.00	6.89	
Toluene*	2.39	0.200	08/11/2014	ND	1.98	99.1	2.00	6.53	
Ethylbenzene*	1.23	0.200	08/11/2014	ND	1.99	99.5	2.00	6.93	
Total Xylenes*	13.5	0.600	08/11/2014	ND	6.14	102	6.00	6.72	
Total BTEX	17.2	1.20	08/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	161	% 89.4-12	6						
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	08/11/2014	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	212	10.0	08/08/2014	ND	171	85.5	200	8.57	
DRO >C10-C28	2840	10.0	08/08/2014	ND	180	89.9	200	9.44	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						

123 % 63.6-154 Surrogate: 1-Chlorooctadecane

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 clause whatsoever shall be deemed valved 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

Celeg Ditrema

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 391-4585

Received: Reported: 08/07/2014

08/12/2014

Project Name: Project Number: WALTERSHEID #1 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

08/07/2014

Sampling Type: Sampling Condition: Soil \*\* (See Notes)

Sample Received By:

Jodi Henson

Sample ID: E SIDE OF ROAD 10' BGS (H402435-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.70	1.00	08/11/2014	ND	1.95	97.4	2.00	6.89	
Toluene*	13.6	1.00	08/11/2014	ND	1.98	99.1	2.00	6.53	
Ethylbenzene*	5.47	1.00	08/11/2014	ND	1.99	99.5	2.00	6.93	
Total Xylenes*	82.4	3.00	08/11/2014	ND	6.14	102	6.00	6.72	
Total BTEX	103	6.00	08/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	148	% 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	208	16.0	08/11/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1570	50.0	08/08/2014	ND	171	85.5	200	8.57	
DRO >C10-C28	3330	50.0	08/08/2014	ND	180	89.9	200	9.44	
Surrogate: 1-Chlorooctane	169	% 65.2-14	0	11.					
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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
	Camples reported on an ac received basis (west) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey Z. Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager	HO'SE, LLC	8/17 70	ANALYSIS REQUEST
O CELO	n. Black	P.O. #:	
SSS: 10 DOX		Company:	
	State: NV Zip: 8834	Attn:	
Phone #: 5 (5-651-2.253	Fax #: 575-391-4585	Address:	
	Project Owner: Medizume	O.L City:	
1	THE POT		
11 2 dd y C	anty	Phone #:	
E Vechon	K. Gleak	Fax #:	
>	(C)OMP.	TRIX PRESERV. SAMPLING	XS
Hungurge Sample I.D.	RAB OR WANDOS TAWETEN PSTEWE	HEB: 1 COOF 1 HEB: 1 DOEE	1151
-	Short Short	OTI ACI	
8.665//	Bolow P. Pe		×
2 54st 5.do	1 class 6 x	7 Ky 1400 X X	×
LEASE NOTE: Liability and Damague, Cardinal's lability and client's exclusive remedy for any dia hubbres. All clients including the forest for each day other cause whatloover shall be deeme	ity and clent's exclusive remedy for any claim arising whether based in any other cause whatsoever shall be deemed wannot unless made in wi	EASE NOTE: Liability and Damages. Cardinal's liability and clerifs exclasive remedy for any dam sixing unither based in contract or list. shall be limited to the amount paid by the client for the hyper clients in the limited to the amount paid by the client for	
thates or successors arising out of or related to the perform	ocraequental damages, including without limitation, business internance of services hereunder by Cardinal, regardless of whether such Date: A Rocal Control Date:	of first the control of the control	
M M M M M M M M M M M M M M M M M M M	15/5/	Humby Fax Result: 7 ves Fax Result: 7 ves REMARKS: 7 ves	s □ No Add'l Phone #:
•	Time:		
Delivered By: (Circle One) ampler - UPS - Bus - Other:	Sample Condition	lact (Militals)	
† Cardinal cannot accept verbal changes. Please for	Changes Please for mitter	No	
	an energy of reason rax written changes	Written changes to 506 39322476	



September 10, 2014

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

RE: WALTERSHEID #1

Enclosed are the results of analyses for samples received by the laboratory on 09/02/14 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited accredited

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

GW SAMPle at EXCAVATION SITE 12' BGS



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

Fax To:

(505) 391-4585

Received:

09/02/2014

Reported:

09/10/2014

Project Name:

WALTERSHEID #1

Project Number: Project Location: NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

09/02/2014

Sampling Condition:

Water \*\* (See Notes)

Sample Received By:

Jodi Henson

### Sample ID: ACCUMULATED GROUND WATER 12' BGS (H402696-01)

mg/l	L	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.001	0.001	09/09/2014	ND	0.021	105	0.0200	3.38	
<0.001	0.001	09/09/2014	ND	0.021	106	0.0200	3.89	
<0.001	0.001	09/09/2014	ND	0.021	103	0.0200	3.85	
<0.003	0.003	09/09/2014	ND	0.064	107	0.0600	2.80	
<0.006	0.006	09/09/2014	ND				J	
104 %	6 87.3-11	3						
101 %	89.6-11	0						
98.9 9	82.3-11	9						
mg/	L	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4150	4.00	09/04/2014	ND	104	104	100	3.92	
	Result <0.001 <0.001 <0.003 <0.006  104 9 98.9 9 mg/	<0.001 0.001 <0.001 0.001 <0.001 0.001 <0.003 0.003 <0.006 0.006  104 % 87.3-11 101 % 89.6-11 98.9 % 82.3-11 mg/L  Result Reporting Limit	Result         Reporting Limit         Analyzed           <0.001	Result         Reporting Limit         Analyzed         Method Blank           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.001

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg Thema



### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 8 (575) 393-24	88240	3-2476
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Marland, 3-2326 FA	Hobbs,	-
Z 7	ď,	150
101 E	Σ	393-23
	101 E	(575)

Company Name:	History Horse 116	7/8	BILL TO	ANALYSIS REC	REQUEST	T
Project Manager:	Project Manager:   Erney K. Black	P.O.#:				
Address:	Address: Po Box 1058	Company:				
city: Hobbs	State: NM Zip: 8834	Attn:				-
Phone #: 575-651-2253	51-2253 F	Address:				-
Project #:		City:				
Project Name:	Project Name: Walter Che of	State: 2	Zip:			
Project Location:	Project Location: Eddy County NM	Phone #:				
Sampler Name:	Sampler Name: Pernen K. Bluck	Fax#:	5-			-
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING			-
Lab I.D.	PAO(2) SO BAS REPAINERS RETAWONUO RETAWETS	HEB: 0/BYSE: DOE:	STEX			
H4021916	MAN WHEN AND SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	HTO NOTH	DATE TIME			T
	V 2000					
		and the state of t	he limited in the amount and by the client for the			

PLEASE NOTE: Liability and Damages. Cardinal's liability and delates's enclaive enteredy for any data assists where to be not to sea to enter the common usus and any other causes whatsoner enteredy for any data was delated any other causes whatsoner all be deemed waved unless made in writing and received by Cardinal within 10 days after consequented damages, including with animates interruptions, less of use, or loss of profits incurred by client, its subsidiaries, services in movement of animates and animates and animates and animates and animates and the animates animates and the animates and the animates of profits incurred by client, its subsidiaries.

Phone Result:   Yes   No Add'l Phone #:	War remarks:	- Colot . To Colo.	Call Carlo	CHECKED BY:	
COHY Received By:	1445 LIGHT JAC	Received By:		Sample Condition	Nos Pres Pres
Refinduíshed By:	Time:	Relinquished By: Date:	Time:	Delivered By: (Circle One)	Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/24764



October 13, 2014

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WALTERSHEID #1

Enclosed are the results of analyses for samples received by the laboratory on 10/06/14 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

GW Confirmation Sample 807'SWob Execution 12'BGS



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

Fax To:

(505) 391-4585

Received:

10/06/2014

Sampling Date:

10/04/2014

Reported:

10/13/2014

Sampling Type:

Water

Project Name:

WALTERSHEID #1

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN EDDY COUNTY, NM Sample Received By:

Jodi Henson

### Sample ID: GW SAMPLE #1 (H403045-01)

BTEX 8021B	mg/l	L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/11/2014	ND	0.026	132	0.0200	1.62	
Toluene*	<0.001	0.001	10/11/2014	ND	0.025	125	0.0200	0.666	
Ethylbenzene*	<0.001	0.001	10/11/2014	ND	0.024	118	0.0200	0.556	
Total Xylenes*	< 0.003	0.003	10/11/2014	ND	0.070	117	0.0600	0.440	
Total BTEX	<0.006	0.006	10/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 66.2-14.	2						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	5100	4.00	10/07/2014	ND	100	100	100	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey Thema

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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

Cardinal Laboratories \*=Accredited Analyte

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Celeg Thema



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

NALYSIS REQUEST

Sample Condition
Cool Mtact
Tes Tes 4.90 Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

GPS Lastin 32.3928

☐ Yes ☐ No Add'l Phone #:

Phone Result: Fax Result: REMARKS:

analyses. All clarms including those for negligence and any other cause whatsoever shall be deemed service. In no event shall Cardinal be liable for incidental or consequental damagas, including without

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



October 09, 2014

**VERNON BLACK** 

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WALTERSHEID #1

Enclosed are the results of analyses for samples received by the laboratory on 10/06/14 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes are denoted by a contract of the total contra

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Soil Confirmation Studer
7-10'BGS
EXCAUATION on West Side
& Grandi Road



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

Fax To:

10/04/2014 Sampling Date:

Soil Sampling Type:

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

Project Name: WALTERSHEID #1 Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM

10/06/2014

10/09/2014

### Sample ID: NORTH END 10' BGS (H403046-01)

Received:

Reported:

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	< 0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	93.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.5	% 52.1-17	6						

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dain 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 consequencial 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 claims 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.

Colony T. trema-

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 391-4585

Received:

10/06/2014

Sampling Date:

10/04/2014

Reported:

10/09/2014

Sampling Type:

Soil

Project Name:

WALTERSHEID #1

Sampling Condition: Sample Received By: Cool & Intact

Project Number:

NONE GIVEN

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: SOUTH END 7' BGS (H403046-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 61-154		Fillian					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/08/2014	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	99.5	% 47.2-15	7						
C I Chlorocatada anno	006	0/ 52 1 17							

Surrogate: 1-Chlorooctadecane

98.6 %

52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celeg Thene

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. Freene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

88240	-2476
ž	393-247
, Hobbs,	FAX (575) 3
	FA
st Marland	-2326
101 Eas	575) 393

HUNGY HOTSE, LC	BILL TO	ANALYSIS REQUEST
a	P.O. #:	
ess: 10 50x 1058	Company:	
City: Hobbs State: Mil Zip: 8824	A4 Attn:	
Phone #: 515-631-2253 Fax #: 575-391-4586	Address:	
	ne O. Co City:	
leid #	State: Zip:	
in Eddy Cour	Phone #:	
Sampler Name: Lennen K. Black	Fax #:	
	MATRIX PRESERV. SAMPLING	1
Sample I.D. 3 OR (C)OI	TOC SSE:	X31 Hd
+ Side A CON	WASTE SOIL OIL SEUDG SOIDSBURGE S	8 L
2 South Fad 10 1865 C		
EASE NOTE: Limiting and Dominates Cardinal's limites and clinice and		
those for negligence and any other cause whatever enterey for any those for negligence and any other cause whatever shall be dear and be fashe for incidental or consequental damages, including wit odd or related to the performance of services hereunder by Card	Jamin singly without based in contrast of four, this like he instead to the amount paid by the client for the med winded unless made in writing and received by Cautinal within 10 days after completion or the applicable without thinston, can be an arrived to the contrast of the contrast of the contrast of the properties of the applicable to a contrast of the contrast of the contrast of the above that is a subsidiaries.	deable
Sundurshed By:  Date: Received By:  Time: 10	Nova A	∴ □ Yes □ No Add'l Phone #: □ Yes □ No Add'l Fax #:
elinguished By: Received By:	) and and	
Delivered By: (Circle One)	Sample Condition CHECKED BY:	
	No No	

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



January 07, 2015

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

RE: WALTERSHEID #1

Enclosed are the results of analyses for samples received by the laboratory on 01/05/15 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited accredited

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Soil Confirmation Samples

8-12'

EXCAVATION East Side

6 Grandi Road



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

Fax To:

(505) 391-4585

Received:

01/05/2015

Reported:

01/07/2015

Project Name:

WALTERSHEID #1

Project Number: Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

01/05/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: NORTH WALL 8' BGS (H500016-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2015	ND	1.66	82.8	2.00	7.65	
Toluene*	<0.050	0.050	01/06/2015	ND	1.68	83.9	2.00	6.21	
Ethylbenzene*	<0.050	0.050	01/06/2015	ND	1.60	80.2	2.00	5.48	
Total Xylenes*	<0.150	0.150	01/06/2015	ND	4.75	79.1	6.00	6.32	
Total BTEX	<0.300	0.300	01/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	86.0	% 61-154	1						
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	01/06/2015	ND	186	93.0	200	1.93	
DRO >C10-C28	<10.0	10.0	01/06/2015	ND	215	108	200	9.55	
Surrogate: 1-Chlorooctane	57.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	64.0	% 52.1-17	76						

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Celeg Theme



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

Received:

01/05/2015

Reported:

01/07/2015 WALTERSHEID #1

Project Name: Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/05/2015

Sampling Type:

Soil

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

Sample ID: SOUTH WALL 8' BGS (H500016-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2015	ND	1.66	82.8	2.00	7.65	
Toluene*	<0.050	0.050	01/06/2015	ND	1.68	83.9	2.00	6.21	
Ethylbenzene*	<0.050	0.050	01/06/2015	ND	1.60	80.2	2.00	5.48	
Total Xylenes*	<0.150	0.150	01/06/2015	ND	4.75	79.1	6.00	6.32	
Total BTEX	<0.300	0.300	01/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL

84.0 %

61-154

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	01/06/2015	ND	186	93.0	200	1.93	
DRO >C10-C28	<10.0	10.0	01/06/2015	ND	215	108	200	9.55	

Surrogate: 1-Chlorooctane

59.6 %

47.2-157

Surrogate: 1-Chlorooctadecane

74.4 %

52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Clay D. Keine



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Celeg & Keena



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

88240	393-2476
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Hobbs,	X (575)
nd,	A
Marla	5) 393-2326 F
East	393
101 E	(575)

Company Name:	HUNGEY HOTSE, LLC	BILL TO ANALYSIS REQUEST	
Project Manager:	Vernon K. Black	P.O. #:	
Address: PO	BOX 1058	Company:	
City: Hobbs	State: NM Zip: 8834	Attn:	
Phone #: 575-631-	2253 Fax#: 575	Address:	
Project #:	Project Owner: Menbund	City:	
Project Name:	Eddy Canty	State: Zip:	
Project Location:	WALKES	Phone #:	
Sampler Name:	Vernon K. Black	Fax #:	
FOR LABUSE ONLY	MATRIX	PRESERV, SAMPLING	
Lab I.D.	RETAN:	:38	
Hsacolle	(G)RAB (GONTA SOIL	OTHER SUDGE OTHER TIME	
-	HWAII 8 BGC X		
7	Surthwell 8 Bes 4 1	5th 1.3. X X	
PLEASE NOTE: Liability and C analyses. All claims including it service. In no event shall Cardi	PLEASE NOTE: Liability and Damages. Cardrait's lability and dient's exclusive remedy to any dam arising wilether based in contract or loct, shall be limited to the amount paid by the client for the special service. All delims, including those for regignece, and any other cause whattenever shall be deemed where units and in white the approach of the approaches the completion of the approaches on the approaches that Cardraid white the liability and completion of the approaches or the approaches that Cardraid he liability incurred by clent, its subsidiaries.	dam asing whether based in contract or locit, shall be firmled to the amount paid by the client for the rinned wawted univers made in writing and received by Cardinal within 30 days after completion of the applicable through similation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	
Relinquished By:	god of or related to the performance of services hereinoder by Cardious inspatiess of whether such dis-	m is based upon any of the above classed executes or chemistre. Over No Add'I Phone #:  Fax Result: Ves No Add'I Fax #:	
Relinquished By:	Date: Received By:		
	Ime		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.36 Cool Inta	dition CHECKED BY: (Initials) No	
† Cardinal ca	es	0 605-393-6476	

## Mewbourne Oil Company-Waltersheid #1 West Side of Grandi Road













## Mewbourne Oil Company-Waltersheid #1 East Side of Grandi Road











