

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):

NM OCD Notified: X Yes No **C-141 Completed and Submitted:** X Yes No

Spill Area Impacted: Inside Firewall On Production Pad In Pasture X In Cultivated Land
Other (Specify):

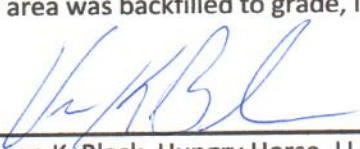
Total Square Foot Impacted: Approximately 2,285 **Estimated Depth:** 12' **Volume (Cu. Yards):** 1,100

Other Comments:

Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 03 2014

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB1424651768		OPERATOR		<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report	
Name of Company Mewbourne Oil Co		Contact Zach Thomas			
Address 701 S Cecil, Hobbs, NM		Telephone No. 575-602-2188			
Facility Name Waltersheid #1		Facility Type Gas Well			
Surface Owner Private		Mineral Owner Private		API No. 30-015-25117	

LOCATION OF RELEASE

Unit Letter E	Section 14	Township 22S	Range 27E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.3940 Longitude -104.1687

NATURE OF RELEASE

Type of Release Gas	Volume of Release Unknown	Volume Recovered 0
Source of Release Hammer Union/Gas Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5 Aug 14 A.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Unknown	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Hammer Union/Line developed a leak at the point where the line makes a 90 degree turn to the east going under Grandi Road. Upon discovery, the line was shut in and the impacted area was excavated to expose the line. Once exposed, the line was repaired and put back in service. The impacted soil that was excavated was transported to a division approved disposal facility. An environmental remediation company will be contracted for a complete remediation of the impacted area. During the remediation/excavation process, groundwater was encountered at approximately 12' BGS on the west side of the road. A groundwater sample was obtained and sent for lab analysis. Results will be presented to NM OCD.		
Describe Area Affected and Cleanup Action Taken.*		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Z. Thomas</i>	OIL CONSERVATION DIVISION	
Printed Name: Zach Thomas	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: HSE	Approval Date: 9/3/14	Expiration Date:
E-mail Address: zthomas@newbourne.com	Conditions of Approval: Remediation per OCD Rule & Guidelines.	
Date: 3 Sept 14 Phone: 575-602-2188	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 10/3/14	

* Attach Additional Sheets If Necessary

Attached ☐

2RR-2469

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

OPERATOR

☐ Initial Report ☒ Final Report


Name of Company Mewbourne Oil Co	Contact Zach Thomas	
Address 701 S Cecil, Hobbs, NM 88240	Telephone No. 575-602-2188	
Facility Name Waltersheid #1	Facility Type Gas Well	
Surface Owner Private	Mineral Owner Private	API No. 30-015-25117

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	14	22S	27E					Eddy

Latitude 32.3940 Longitude -104.1687 Release Area

NATURE OF RELEASE

Type of Release Gas	Volume of Release unknown	Volume Recovered 0
Source of Release Hammer Union on Gas Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5Aug14 A.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Unknown	
If a Watercourse was Impacted, Describe Fully.* Ground water was encountered during the excavation phase at approximately 12' BGS. A groundwater sample was obtained and lab analysis conducted for BTEX and Chlorides. Lab results indicated elevated chlorides. It is common knowledge that the shallow groundwater in this area contains high chlorides levels. Upon the recommendation of NM OCD's Mike Bratcher, another excavation, approximately 807' southwest of the worksite, was conducted for the purpose of collecting a groundwater sample. Upon completion of the excavation, groundwater was allowed to settle for 48 hours prior to bailing and collecting a sample. This sample was also analyzed for BTEX and Chlorides. The lab analysis confirmed the elevated levels of chlorides in the ground water (see attached Lab Analysis).		
Describe Cause of Problem and Remedial Action Taken.* Upon discovery of the release, the line was shut in and the area excavated in order to repair the line. Sufficient excavation was conducted at the release site to recover the highly saturated/impacted soil. This soil was transported to a division approved facility for disposal. The impacted area was then released to Hungry Horse, LLC for complete remediation of the impacted area.		
Describe Area Affected and Cleanup Action Taken.* The impacted area was divided into 2 areas for the purpose of remediation, the east side of the road and the west side of the road (Grandi Road). The west side was excavated to approximately 12' BGS. At which point groundwater was encountered (see above). Samples were collected from the groundwater and from the excavation walls. Lab results (see attached) were presented to NM OCD's Heather Patterson seeking closure approval. Approval was granted. The east side of the road was excavated in the same manner and to the same approximate depth as the west. Soil samples were obtained for lab analysis. Lab results indicated no presence of contaminants. The excavated area was backfilled with fresh soil from a nearby source and brought back to grade and leveled. All impacted soils were transported to a division approved disposal facility.		
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: 		OIL CONSERVATION DIVISION
Printed Name: Zack Thomas		Approved by Environmental Specialist:
Title: HSE	Approval Date:	Expiration Date:
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 16Jan15	Phone: 575-602-2188	

* Attach Additional Sheets If Necessary

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 www.tceq.texas.gov/field/ga/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.

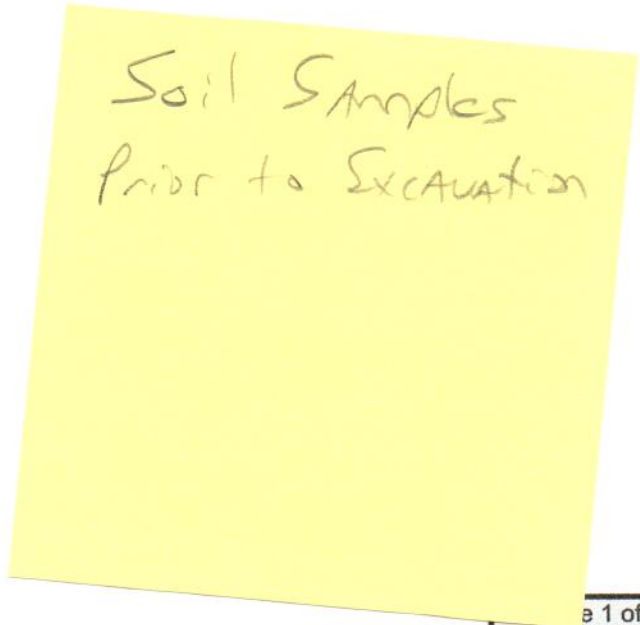
This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



Soil Samples
Prior to Excavation

Analytical Results For:

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

Received: 08/07/2014
Reported: 08/12/2014
Project Name: WALTERSHEID #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/07/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B			mg/kg		Analyzed By: CK			S-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 (PIL) 161 % 89.4-126

Chloride, SM4500Cl-B			mg/kg				Analyzed 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				Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/07/2014
Reported: 08/12/2014
Project Name: WALTERSHEID #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 08/07/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 148 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
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									

TPH 8015M		mg/kg		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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 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

BILL TO		ANALYSIS REQUEST																
P.O. #:																		
Company:																		
Attn:																		
Address:																		
City:																		
State:																		
Phone #:																		
Fax #:																		
Company Name:	Hungry Horse, LLC	State:	NM	Zip:	88241													
Project Manager:	Vernon K. Black	Fax #:	575-391-4585															
City:	Hobbs	Project Owner:	Medicine Co.															
Phone #:	575-631-2253	Project Name:	Walterscheid #1															
Project #:		Project Location:	Eddy County															
Sampler Name:	Vernon K. Black	Matrix:																
		GROUNDWATER																
		WASTEWATER																
		SOIL																
		SLUDGE																
		OTHER:																
		ACID/BASE:																
		ICE / COOL																
		OTHER:																
		# CONTAINERS																
		(G) RAB OR (C)OMP																
Lab I.D.	Sample I.D.	DATE	TIME															
H402135	1 West side of Road 8' BGS / 1" below Pipe	7 Aug 14	1400															
2 East side of Road 10' BGS / 1" below Pipe		7 Aug 14	1400															

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising out of or from this contract or tort, shall be limited to the amount paid by the client for the analysis. 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, hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Phone Result:	Yes	No	Add'l Phone #:
<i>[Signature]</i>	7 Aug 14	<i>[Signature]</i>	Fax Result:	Yes	No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:	Cool Intact	<i>[Signature]</i>				
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
	24.6.2					

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 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

GW Sample at
EXCAVATION site
12' BGS

Analytical Results For:

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: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 09/02/2014
Sampling Type: Water
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8260B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	09/09/2014	ND	0.021	105	0.0200	3.38	
Toluene*	<0.001	0.001	09/09/2014	ND	0.021	106	0.0200	3.89	
Ethylbenzene*	<0.001	0.001	09/09/2014	ND	0.021	103	0.0200	3.85	
Total Xylenes*	<0.003	0.003	09/09/2014	ND	0.064	107	0.0600	2.80	
Total BTEX	<0.006	0.006	09/09/2014	ND					

Surrogate: Dibromofluoromethane 104 % 87.3-113

Surrogate: Toluene-d8 101 % 89.6-110

Surrogate: 4-Bromofluorobenzene 98.9 % 82.3-119

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	4150	4.00	09/04/2014	ND	104	104	100	3.92	

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



100

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 analysis. 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 or affiliates. Cardinal's sole basis for recovery shall be the performance of services rendered by Cardinal. The undersigned certifies that the above stated basis for recovery is the sole basis for recovery and is not intended to be construed as a limitation on the recovery of damages or other remedies available to the client.

25 SEP 84
Time: 1445
Jodi Benson

Relinquished By:	Date:	Received By:
------------------	-------	--------------

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
----------------------------	------------------	-------------

Delivered by: (Strike one)
 1746
 Cool ☐ Yes ☒ No
 Intact ☐ Yes ☒ No
 (Initials) BT

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 **4/5/11**

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 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

GW Confirmation Sample
807' SW of Excavation
12' BGS

Analytical Results For:

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

 Received: 10/06/2014
 Reported: 10/13/2014
 Project Name: WALTERSHEID #1
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/04/2014
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTEX 8021B		mg/L		Analyzed 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 (PIC) 102 % 66.2-142

Chloride, SM4500Cl-B		mg/L		Analyzed 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 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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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

[illegible]

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 www.tceq.texas.gov/field/ga/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)

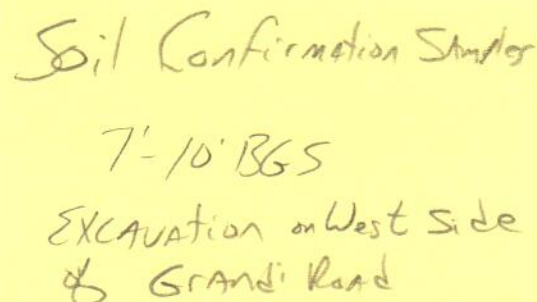
Accreditation applies to public drinking water matrices.

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



Soil Confirmation Samples
7'-10' BGS
Excavation on West Side
of Grand Road

Analytical Results For:

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

Received: 10/06/2014
Reported: 10/09/2014
Project Name: WALTERSHEID #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/04/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	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 (PIE) 100 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.5 % 52.1-176

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: 10/06/2014
Reported: 10/09/2014
Project Name: WALTERSHEID #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/04/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	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

Chloride, SM4500Cl-B			mg/kg								Analyzed 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		Analyzed 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 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.6 % 52.1-176

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

Cardinal Laboratories***=Accredited Analyte**

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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

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															
State: NM Zip: 88241															
Phone #: 575-631-2253															
Fax #: 575-391-4585															
Project #: Project Owner: Muburne Oil Co															
Project Name: Walterscheid #1															
Project Location: Eddy County NM															
Sampler Name: Vernon K. Black															
FOR LAB USE ONLY															
Lab I.D.															
Sample I.D.															
H403046															
Confirmation Samples															
West Side of Road															
1 North End 10' BGS															
2 South End 7' BGS															

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising out of or based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 10-6-14	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 10-10-14	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other:				
4.90				
CHECKED BY: <i>[Signature]</i>				
Sample Condition: Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 *IT 5/11*

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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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

Soil Confirmation Samples
8-12'
Excavation on East Side
of Grand Road

Analytical Results For:

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: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	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 (PIE) 86.0 % 61-154

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	01/06/2015	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 64.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/05/2015
Reported: 01/07/2015
Project Name: WALTERSHEID #1
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	01/06/2015	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 (PIC) 84.0 % 61-154

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	01/06/2015	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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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

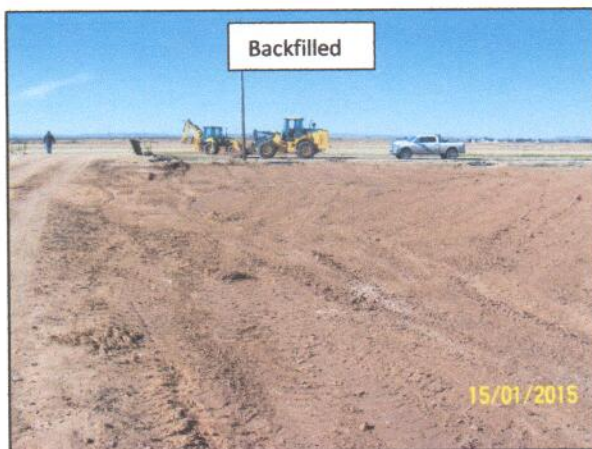
[illegible]

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Relinquished By: <i>[Signature]</i>		Date: <i>5 Jun 15</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
		Time: <i>1:30</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Relinquished By: _____		Date: _____	Received By: _____	REMARKS: _____	
		Time: _____			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <i>[Signature]</i>	
		Cool <input type="checkbox"/> Intact <input type="checkbox"/>			
		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
Sampler - UPS - Bus - Other: _____		<i>4.80</i>			

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

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



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

