

HUNGRY HORSE, LLC

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

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

3Feb16

To: Heather Patterson, New Mexico Oil Conservation, District II
Shelly J. Tucker, Bureau of Land Management
Reference: Closure Request
Operator: Devon Energy Production Company
Location: Pure Gold C-17 Fed #4
API: 30-015-27153
Legals: UL. H, Sec. 17, T23S, R31E, Eddy County, New Mexico
GPS: 32.3067 -103.7921
NM OCD: 2RP 3324

Please see the attached documentation in support of request for closure of NM OCD 2RP-3324. As per the approved work plan, soil samples were taken and analyzed 30 days after the application of the MicroBlaze. Lab analysis indicate a drastic reduction of TPH and BTEX. Continued natural aeration of the loosened soil and accumulating moisture will aid the microbes in further reduction of the remaining low levels of hydrocarbons.



Vernon K. Black, Hungry Horse, LLC

Remediation Summary Report

General Information

This report as prepared by Hungry Horse, LLC is a summary of the remediation efforts at Devon Energy Production Company's Pure Gold C-17 Fed #4 in response to the release that occurred on 8Oct15, releasing 200 bbls of crude oil inside the contained battery.

Date: 3Feb16

Client: Devon Energy Production Company

Site Name: Pure Gold C-17 Fed #4

API: 30-015-27153

County: Eddy

State: New Mexico

Site Coordinates Latitude: 32.3067
Longitude: -103.7921

Legals: UL. H, Sec. 17, T23S, R31E

Property Owner: BLM

New Mexico Oil Conservation Division RP No.: 2RP 3324

Release Description and Assessment

Date of Spill: 8Oct15

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: 200 bbls

Quantity Recovered: 185 bbls

Total Released: 15 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

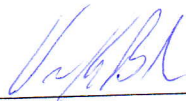
Spill Area Impacted: ☒ Inside Firewall ☒ On Production Pad ☒ In Pasture ☐ In Cultivated Land
Other (Specify):

Area Impacted: 55' x 75' (Battery), 20' x 25' (Pad), 40' x 75' (Pasture) Estimated Depth: 1'-2'

Other Comments: N/A

Remediation Activity Summary

As per the approved work plan, the impacted soil inside the battery and the impacted area on the pad was loosened by use of hand tools. A liberal application of MicroBlaze solution was applied to the impacted area. Thirty days after the application, soil samples were collected from the same sample points as in the delineation and analyzed for TPH and BTEX. An additional soil sample was selected from a sample point in the pasture for confirmation. Lab analysis indicates a drastic reduction in contaminant levels. Loosening of the soil aided the remediation efforts by providing sufficient aeration and penetration of the MicroBlaze. Closure of NM OCD 2RP-3324 is requested.



Vernon K. Black, Hungry Horse, LLC

Analytical Summary

Operator: Devon Energy Production

Location: Pure Gold C-17 Fed #4

Date: 5Nov15/27Jan16

TOTAL PETROLEUM HYDROCARBONS (TPH)

	1' BGS	2' BGS	3' BGS		
SP #1	5120/966	791/650	704/57		
SP #2	5470/2006	10430/306	272/319		
SP #3	8700/486	886/181	ND/845		
SP #4					
Confirmation Sample	ND Surface	ND 1' BGS			

CHLORIDES

	1' BGS	2' BGS	3' BGS		
SP #1	32	<16	32		
SP #2	32	<16	<16		
SP #3	<16	<16	<16		

BTEX

	1' BGS	2' BGS	3' BGS		
SP #1	139/1.34	3.02/ND	0.56/ND		
SP #2	219/11	258/ND	11.4/ND		
SP #3	42/.43	5/2.45	0.3/3.6		
SP #4					
Confirmation Sample	ND Surface	ND Surface			

Results in **RED are the lab results from soil samples taken 30 days after the application of MicroBlaze as per the approved work plan.

November 05, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

*Delegation
Samples*

RE: PURE GOLD C-17 FED #4

Enclosed are the results of analyses for samples received by the laboratory on 10/29/15 11:45.

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

Analytical Results For:

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

Received:	10/29/2015	Sampling Date:	10/28/2015
Reported:	11/05/2015	Sampling Type:	Soil
Project Name:	PURE GOLD C-17 FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP #1 1' BGS (H502836-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.73	1.00	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	38.0	1.00	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	17.4	1.00	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	78.0	3.00	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	139	6.00	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1380	50.0	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	3740	50.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 158 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1 2' BGS (H502836-02)

mg/kg			Analyzed By: MS						
BTX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2015	ND	2.08	104	2.00	1.80	
Toluene*	0.282	0.050	11/04/2015	ND	2.31	116	2.00	2.52	
Ethylbenzene*	0.254	0.050	11/04/2015	ND	2.13	107	2.00	2.84	
Total Xylenes*	2.49	0.150	11/04/2015	ND	6.80	113	6.00	2.91	
Total BTX	3.02	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.6-140

Chloride, SM4500Cl-B			Analyzed By: AP						
mg/kg									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	147	10.0	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	644	10.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 121 % 28-171

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1 3' BGS (H502836-03)

mg/kg			Analyzed By: MS							
BTEx 8021B										
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2015	ND	2.16	108	2.00	1.39		
Toluene*	<0.050	0.050	11/04/2015	ND	2.35	118	2.00	0.0452		
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.15	108	2.00	1.22		
Total Xylenes*	0.562	0.150	11/04/2015	ND	6.85	114	6.00	1.21		
Total BTEx	0.562	0.300	11/04/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	11/04/2015	ND	432	108	400	7.69			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	73.6	50.0	11/02/2015	ND	208	104	200	1.44			
DRO >C10-C28	630	50.0	11/02/2015	ND	223	112	200	1.44			

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 1' BGS (H502836-04)

mg/kg			Analyzed By: MS						
BTEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.55	1.00	11/04/2015	ND	2.16	108	2.00	1.39	
Toluene*	64.3	1.00	11/04/2015	ND	2.35	118	2.00	0.0452	
Ethylbenzene*	28.6	1.00	11/04/2015	ND	2.15	108	2.00	1.22	
Total Xylenes*	118	3.00	11/04/2015	ND	6.85	114	6.00	1.21	
Total BTEX	219	6.00	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/04/2015	ND	432	108	400	7.69	S-06

Chloride		S-06							
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1830	50.0	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	3640	50.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 175 % 35-147

Surrogate: 1-Chlorooctadecane 167 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 2' BGS (H502836-05)

mg/kg			Analyzed By: MS						
BTX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.2	2.00	11/04/2015	ND	2.16	108	2.00	1.39	
Toluene*	69.6	2.00	11/04/2015	ND	2.35	118	2.00	0.0452	
Ethylbenzene*	33.5	2.00	11/04/2015	ND	2.15	108	2.00	1.22	
Total Xylenes*	145	6.00	11/04/2015	ND	6.85	114	6.00	1.21	
Total BTX	258	12.0	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69	

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	3320	100	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	7110	100	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 163 % 35-147

Surrogate: 1-Chlorooctadecane 201 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 3' BGS (H502836-06)

BTEx 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	0.092	0.050	11/04/2015	ND	2.16	108	2.00	1.39			
Toluene*	1.60	0.050	11/04/2015	ND	2.35	118	2.00	0.0452			
Ethylbenzene*	1.81	0.050	11/04/2015	ND	2.15	108	2.00	1.22			
Total Xylenes*	7.95	0.150	11/04/2015	ND	6.85	114	6.00	1.21			
Total BTEx	11.4	0.300	11/04/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 138 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	56.1	50.0	11/02/2015	ND	208	104	200	1.44			
DRO >C10-C28	216	50.0	11/02/2015	ND	223	112	200	1.44			

Surrogate: 1-Chlorooctane 97.1 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 1' BGS (H502836-07)

mg/kg			Analyzed By: MS						
BTX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	11/04/2015	ND	2.16	108	2.00	1.39	
Toluene*	8.60	2.00	11/04/2015	ND	2.35	118	2.00	0.0452	
Ethylbenzene*	5.87	2.00	11/04/2015	ND	2.15	108	2.00	1.22	
Total Xylenes*	27.9	6.00	11/04/2015	ND	6.85	114	6.00	1.21	
Total BTX	42.4	12.0	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69	

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	2590	100	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	6110	100	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 213 % 35-147

Surrogate: 1-Chlorooctadecane 195 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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:	10/29/2015	Sampling Date:	10/28/2015
Reported:	11/05/2015	Sampling Type:	Soil
Project Name:	PURE GOLD C-17 FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP #3 2' BGS (H502836-08)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2015	ND	2.16	108	2.00	1.39	
Toluene*	0.696	0.050	11/04/2015	ND	2.35	118	2.00	0.0452	
Ethylbenzene*	0.726	0.050	11/04/2015	ND	2.15	108	2.00	1.22	
Total Xylenes*	3.52	0.150	11/04/2015	ND	6.85	114	6.00	1.21	
Total BTX	4.94	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	168	10.0	11/02/2015	ND	207	103	200	1.98	
DRO >C10-C28	718	10.0	11/02/2015	ND	219	110	200	1.62	

Surrogate: 1-Chlorooctane 120 % 35-147

Surrogate: 1-Chlorooctadecane 132 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 10/29/2015
 Reported: 11/05/2015
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 3' BGS (H502836-09)

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	11/04/2015	ND	2.16	108	2.00	1.39	
Toluene*	<0.050	0.050	11/04/2015	ND	2.35	118	2.00	0.0452	
Ethylbenzene*	<0.050	0.050	11/04/2015	ND	2.15	108	2.00	1.22	
Total Xylenes*	<0.150	0.150	11/04/2015	ND	6.85	114	6.00	1.21	
Total BTEX	<0.300	0.300	11/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2015	ND	432	108	400	7.69	

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	11/02/2015	ND	207	103	200	1.98	
DRO >C10-C28	<10.0	10.0	11/02/2015	ND	219	110	200	1.62	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 120 % 28-171

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.
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

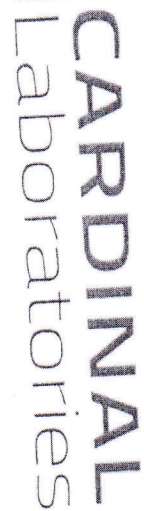
Cardinal Laboratories

*=Accredited Analyte

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

[illegible]

February 02, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: PURE GOLD C-17 FED #4

*Confirmation
Samples*

Enclosed are the results of analyses for samples received by the laboratory on 01/27/16 14:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 1' (H600201-01)

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	01/30/2016	ND	1.96	98.0	2.00	2.61	
Toluene*	0.262	0.050	01/30/2016	ND	1.94	96.9	2.00	2.05	
Ethylbenzene*	0.205	0.050	01/30/2016	ND	1.77	88.4	2.00	2.61	
Total Xylenes*	0.868	0.150	01/30/2016	ND	5.46	91.1	6.00	1.97	
Total BTEx	1.34	0.300	01/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

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	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	966	50.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 80.0 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 2' (H600201-02)

Sample ID: SP 1 2 (H000201 05)

mg/kg			Analyzed By: MS									
BTEX 8021B			Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			Benzene*	<0.050	0.050	01/30/2016	ND	1.96	98.0	2.00	2.61	
			Toluene*	<0.050	0.050	01/30/2016	ND	1.94	96.9	2.00	2.05	
			Ethylbenzene*	<0.050	0.050	01/30/2016	ND	1.77	88.4	2.00	2.61	
			Total Xylenes*	<0.150	0.150	01/30/2016	ND	5.46	91.1	6.00	1.97	
			Total BTEX	<0.300	0.300	01/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

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	01/28/2016	ND	201	100	200	2.75			
DRO >C10-C28		650	50.0	01/28/2016	ND	202	101	200	6.42			

Surrogate: 1-Chlorooctane 72.1 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 3' (H600201-03)

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	01/30/2016	ND	1.96	98.0	2.00	2.61	
Toluene*	<0.050	0.050	01/30/2016	ND	1.94	96.9	2.00	2.05	
Ethylbenzene*	<0.050	0.050	01/30/2016	ND	1.77	88.4	2.00	2.61	
Total Xylenes*	<0.150	0.150	01/30/2016	ND	5.46	91.1	6.00	1.97	
Total BTEX	<0.300	0.300	01/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

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	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	57.1	10.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 76.5 % 35-147

Surrogate: 1-Chlorooctadecane 69.1 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 1' (H600201-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.190	0.100	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	1.36	0.100	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	1.31	0.100	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	7.86	0.300	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTX	10.7	0.600	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	276	50.0	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	1730	50.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 80.3 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 2' (H600201-05)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	<0.050	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	<0.150	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEX	<0.300	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

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	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	306	50.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 71.5 % 35-147

Surrogate: 1-Chlorooctadecane 94.1 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 3' (H600201-06)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	<0.050	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	<0.150	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEX	<0.300	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	319	100	01/28/2016	ND	202	101	200	6.42	


Surrogate: 1-Chlorooctane 64.1 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 1' (H600201-07)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	<0.050	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	0.051	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	0.381	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEx	0.432	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	67.5	10.0	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	421	10.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 85.7 % 35-147

Surrogate: 1-Chlorooctadecane 80.3 % 28-171

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 2' (H600201-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	0.063	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	0.313	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	2.07	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTX	2.45	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.1	10.0	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	162	10.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 82.8 % 35-147

Surrogate: 1-Chlorooctadecane 75.2 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 3' (H600201-09)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	0.150	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	0.289	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	3.15	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEx	3.59	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	68.1	10.0	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	777	10.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 75.0 % 28-171

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: 01/27/2016
 Reported: 02/02/2016
 Project Name: PURE GOLD C-17 FED #4
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/27/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 4 SURFACE (H600201-10)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	<0.050	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	<0.150	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEX	<0.300	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

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	01/28/2016	ND	201	100	200	2.75	
DRO >C10-C28	12.1	10.0	01/28/2016	ND	202	101	200	6.42	

Surrogate: 1-Chlorooctane 79.2 % 35-147

Surrogate: 1-Chlorooctadecane 71.4 % 28-171

* = Accredited Analyte

Cardinal Laboratories

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: 01/27/2016
Reported: 02/02/2016
Project Name: PURE GOLD C-17 FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/27/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 4 1' (H600201-11)

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	02/01/2016	ND	1.87	93.3	2.00	14.5	
Toluene*	<0.050	0.050	02/01/2016	ND	1.84	91.8	2.00	15.8	
Ethylbenzene*	<0.050	0.050	02/01/2016	ND	1.68	83.8	2.00	16.4	
Total Xylenes*	<0.150	0.150	02/01/2016	ND	5.14	85.7	6.00	15.4	
Total BTEX	<0.300	0.300	02/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

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	01/29/2016	ND	201	100	200	2.75			
DRO >C10-C28	<10.0	10.0	01/29/2016	ND	202	101	200	6.42			

Surrogate: 1-Chlorooctane 74.9 % 35-147

Surrogate: 1-Chlorooctadecane 71.1 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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

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 SM4500CI-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

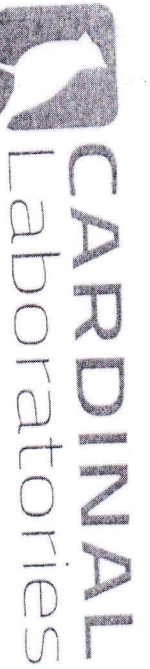
Cardinal Laboratories

*=Accredited Analyte

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



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: PO Box 1058

City: Hobbs

Phone #: 575-631-2253

Project #:

Project Name: Pure gold C-17 fed #4

Project Location: Eddie County

Sample Name: Vernon K. Black

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501

501



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse, LLC		P.O. #:		BILL TO																																	
Project Manager: Vernon K. Black		Company:		ANALYSIS REQUEST																																	
Address: PO Box 1058		Attn:																																			
City: Hobbs		Address:																																			
Phone #: 575-631-2253		City:																																			
State: NM		State:																																			
Zip: 88241		Zip:																																			
Project #:		Project Owner: Deann																																			
Project Location: Purgatoire-17-fed #4		Phone #:																																			
Sample Name: Vernon K. Black		Fax #:																																			
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE / COOL		OTHER :		DATE		TIME											
11-12	SP4 Surface	G		6																				1-27-16 1:30		1-27-16 1:40		VTEX TPH									
Relinquished By: <i>Walter Briggs</i>		Date: 1-27-16		Received By: <i>Wendi Henderson</i>		Date: 1-27-16		Time: 2:04		Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Relinquished By:		Date:		Time:											
Delivered By: (Circle One)		Sample Condition		Checked BY:		Phone Result:		Fax Result:		Adtl Phone #:		Adtl Fax #:																									
Sampler - UPS - Bus - Other:		Cool Intact		Initials		Yes		No		Yes		No																									
		Yes		No		Yes		No		Yes		No																									

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