



July 06, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CHIMAYO 16 FED #3

Enclosed are the results of analyses for samples received by the laboratory on 06/29/16 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/29/2016	Sampling Date:	06/28/2016
Reported:	07/06/2016	Sampling Type:	Soil
Project Name:	CHIMAYO 16 FED #3	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP1 SURFACE (H601453-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2016	ND	1.95	97.5	2.00	1.37	
Toluene*	0.083	0.050	06/30/2016	ND	2.03	101	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/30/2016	ND	1.79	89.7	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/30/2016	ND	5.56	92.7	6.00	3.54	
Total BTEX	<0.300	0.300	06/30/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	07/05/2016	ND	416	104	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	07/01/2016	ND	200	99.9	200	3.28	
DRO >C10-C28	63.6	10.0	07/01/2016	ND	190	94.8	200	4.51	

Surrogate: 1-Chlorooctane 73.8 % 35-147
Surrogate: 1-Chlorooctadecane 72.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 VERNON BLACK
 P.O. Box 1058
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Received:	06/29/2016	Sampling Date:	06/28/2016
Reported:	07/06/2016	Sampling Type:	Soil
Project Name:	CHIMAYO 16 FED #3	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP2 SURFACE (H601453-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2016	ND	1.95	97.5	2.00	1.37	
Toluene*	<0.050	0.050	06/30/2016	ND	2.03	101	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/30/2016	ND	1.79	89.7	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/30/2016	ND	5.56	92.7	6.00	3.54	
Total BTEX	<0.300	0.300	06/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 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	32400	16.0	07/05/2016	ND	416	104	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	07/01/2016	ND	200	99.9	200	3.28	
DRO >C10-C28	59.0	10.0	07/01/2016	ND	190	94.8	200	4.51	

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.1 % 28-171

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 P.O. Box 1058
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 Fax To: (505) 391-4585

Received:	06/29/2016	Sampling Date:	06/28/2016
Reported:	07/06/2016	Sampling Type:	Soil
Project Name:	CHIMAYO 16 FED #3	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP1 4' (H601453-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2016	ND	1.95	97.5	2.00	1.37	
Toluene*	<0.050	0.050	06/30/2016	ND	2.03	101	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/30/2016	ND	1.79	89.7	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/30/2016	ND	5.56	92.7	6.00	3.54	
Total BTEX	<0.300	0.300	06/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/05/2016	ND	416	104	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	07/01/2016	ND	200	99.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	190	94.8	200	4.51	

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.5 % 28-171

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Received:	06/29/2016	Sampling Date:	06/28/2016
Reported:	07/06/2016	Sampling Type:	Soil
Project Name:	CHIMAYO 16 FED #3	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP2 4' (H601453-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2016	ND	1.95	97.5	2.00	1.37	
Toluene*	<0.050	0.050	06/30/2016	ND	2.03	101	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/30/2016	ND	1.79	89.7	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/30/2016	ND	5.56	92.7	6.00	3.54	
Total BTEX	<0.300	0.300	06/30/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/05/2016	ND	416	104	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	07/01/2016	ND	200	99.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	190	94.8	200	4.51	

Surrogate: 1-Chlorooctane 71.6 % 35-147
Surrogate: 1-Chlorooctadecane 73.9 % 28-171
Sample ID: SP1 12' (H601453-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/05/2016	ND	416	104	400	0.00	

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

 Received: 06/29/2016
 Reported: 07/06/2016
 Project Name: CHIMAYO 16 FED #3
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 06/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP2 12' (H601453-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/05/2016	ND	416	104	400	0.00	

Sample ID: SP1 20' (H601453-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	07/05/2016	ND	416	104	400	0.00	

Sample ID: SP2 20' (H601453-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/05/2016	ND	416	104	400	7.41	

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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



Celey D. Keene, Lab Director/Quality Manager

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 State: NM Zip: 88241
 City: Hobbs
 Phone #: 575-631-2253 Fax #: 575-391-4585
 Project #: _____ Project Owner: Devon
 Project Name: Chimayo 16 Fed #3
 Project Location: Eddy County
 Sampler Name: Vernon K. Black
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ID	PH	BTX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HCC1153	Chimayo	6	6			X				11-28-16	12:06	X	X	X	
1	SP1 surface										12:10	X	X	X	
2	SP2 surface										12:20	X	X	X	
3	SP1 4'										12:30	X	X	X	
4	SP2 4'										12:45	X	X	X	
5	SP1 12'										12:50	X	X	X	
6	SP2 12'										1:20	X	X	X	
7	SP1 20'										1:10	X	X	X	
8	SP2 20'														

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Relinquished By: [Signature] Date: 6-29-16
 Received By: [Signature] Date: 15:00
 Time: _____

Delivered By: (Circle One) UPS 32.9
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: [Signature] (Initials) HTS

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