



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

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,

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
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: SP1 SURFACE (H601453-01)

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	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 BTX	<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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Hungry Horse Environmental
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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 SURFACE (H601453-02)

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	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 BTX	<0.300	0.300	06/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 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	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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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: SP1 4' (H601453-03)

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	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 BTX	<0.300	0.300	06/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	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
 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 4' (H601453-04)

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	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 BTX	<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, SM4500Cl-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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* = Accredited Analyte

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 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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

OUTLINE

ANALYSIS REQUEST

[illegible]