



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

February 08, 2018

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: BELGIAN 15 COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/01/18 13:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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". The signature is written in a cursive, flowing style.

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:	02/01/2018	Sampling Date:	01/28/2018
Reported:	02/08/2018	Sampling Type:	Soil
Project Name:	BELGIAN 15 COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON -EDDY CO NM		

Sample ID: SP 1 SURFACE (H800342-01)

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	02/05/2018	ND	2.23	111	2.00	0.467	
Toluene*	<0.050	0.050	02/05/2018	ND	2.09	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/05/2018	ND	2.07	103	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/05/2018	ND	6.20	103	6.00	1.22	
Total BTEX	<0.300	0.300	02/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	02/03/2018	ND	432	108	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	02/05/2018	ND	206	103	200	0.428	
DRO >C10-C28*	90.5	10.0	02/05/2018	ND	198	98.8	200	0.684	
EXT DRO >C28-C36	31.8	10.0	02/05/2018	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.3 % 37.6-147

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*=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: 02/01/2018
 Reported: 02/08/2018
 Project Name: BELGIAN 15 COM 1H
 Project Number: NONE GIVEN
 Project Location: DEVON -EDDY CO NM

 Sampling Date: 01/28/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 1' (H800342-02)

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	02/05/2018	ND	2.23	111	2.00	0.467	
Toluene*	<0.050	0.050	02/05/2018	ND	2.09	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/05/2018	ND	2.07	103	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/05/2018	ND	6.20	103	6.00	1.22	
Total BTEX	<0.300	0.300	02/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	02/03/2018	ND	432	108	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	02/05/2018	ND	206	103	200	0.428	
DRO >C10-C28*	<10.0	10.0	02/05/2018	ND	198	98.8	200	0.684	
EXT DRO >C28-C36	<10.0	10.0	02/05/2018	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Received:	02/01/2018	Sampling Date:	01/28/2018
Reported:	02/08/2018	Sampling Type:	Soil
Project Name:	BELGIAN 15 COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON -EDDY CO NM		

Sample ID: SP 1 2' (H800342-03)

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	02/05/2018	ND	2.23	111	2.00	0.467		
Toluene*	<0.050	0.050	02/05/2018	ND	2.09	104	2.00	1.66		
Ethylbenzene*	<0.050	0.050	02/05/2018	ND	2.07	103	2.00	1.40		
Total Xylenes*	<0.150	0.150	02/05/2018	ND	6.20	103	6.00	1.22		
Total BTEX	<0.300	0.300	02/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	02/03/2018	ND	432	108	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	02/05/2018	ND	206	103	200	0.428		
DRO >C10-C28*	<10.0	10.0	02/05/2018	ND	198	98.8	200	0.684		
EXT DRO >C28-C36	27.1	10.0	02/05/2018	ND						

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Received:	02/01/2018	Sampling Date:	01/28/2018
Reported:	02/08/2018	Sampling Type:	Soil
Project Name:	BELGIAN 15 COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON -EDDY CO NM		

Sample ID: SP 2 SURFACE (H800342-04)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2018	ND	2.23	111	2.00	0.467	
Toluene*	<0.050	0.050	02/05/2018	ND	2.09	104	2.00	1.66	
Ethylbenzene*	0.286	0.050	02/05/2018	ND	2.07	103	2.00	1.40	
Total Xylenes*	1.23	0.150	02/05/2018	ND	6.20	103	6.00	1.22	
Total BTEX	1.52	0.300	02/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 187 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	02/03/2018	ND	432	108	400	0.00	

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*	<50.0	50.0	02/05/2018	ND	206	103	200	0.428	
DRO >C10-C28*	7080	50.0	02/05/2018	ND	198	98.8	200	0.684	
EXT DRO >C28-C36	1800	50.0	02/05/2018	ND					

Surrogate: 1-Chlorooctane 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 198 % 37.6-147

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Received:	02/01/2018	Sampling Date:	01/28/2018
Reported:	02/08/2018	Sampling Type:	Soil
Project Name:	BELGIAN 15 COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON -EDDY CO NM		

Sample ID: SP 2 1' (H800342-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2018	ND	2.23	111	2.00	0.467	
Toluene*	<0.050	0.050	02/05/2018	ND	2.09	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/05/2018	ND	2.07	103	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/05/2018	ND	6.20	103	6.00	1.22	
Total BTEX	<0.300	0.300	02/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	02/03/2018	ND	432	108	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	02/05/2018	ND	206	103	200	0.428	
DRO >C10-C28*	<10.0	10.0	02/05/2018	ND	198	98.8	200	0.684	
EXT DRO >C28-C36	<10.0	10.0	02/05/2018	ND					

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

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 VERNON BLACK
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Received:	02/01/2018	Sampling Date:	01/28/2018
Reported:	02/08/2018	Sampling Type:	Soil
Project Name:	BELGIAN 15 COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON -EDDY CO NM		

Sample ID: SP 2 2' (H800342-06)

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	02/06/2018	ND	2.01	101	2.00	0.00179	
Toluene*	<0.050	0.050	02/06/2018	ND	2.03	101	2.00	0.682	
Ethylbenzene*	<0.050	0.050	02/06/2018	ND	2.02	101	2.00	0.775	
Total Xylenes*	<0.150	0.150	02/06/2018	ND	5.89	98.2	6.00	0.632	
Total BTEX	<0.300	0.300	02/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	02/03/2018	ND	432	108	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	02/05/2018	ND	178	89.2	200	0.847	
DRO >C10-C28*	<10.0	10.0	02/05/2018	ND	176	88.0	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/05/2018	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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



