



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

IRP-2842

Analytical Results For:

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

HOBBS OCD

AUG 28 2012

RECEIVED

Received: 08/27/2012
Reported: 08/28/2012
Project Name: MALLON 35 FED H
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 08/27/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP #5 NORTH WALL (H202054-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2012	ND	416	104	400	0.00	

approved for backfill
Jeff LeKing
Env. Specialist
NMOC-DIST 1
8/29/12

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

PKJ 1605041033

Qbhf 13!pg5

2842



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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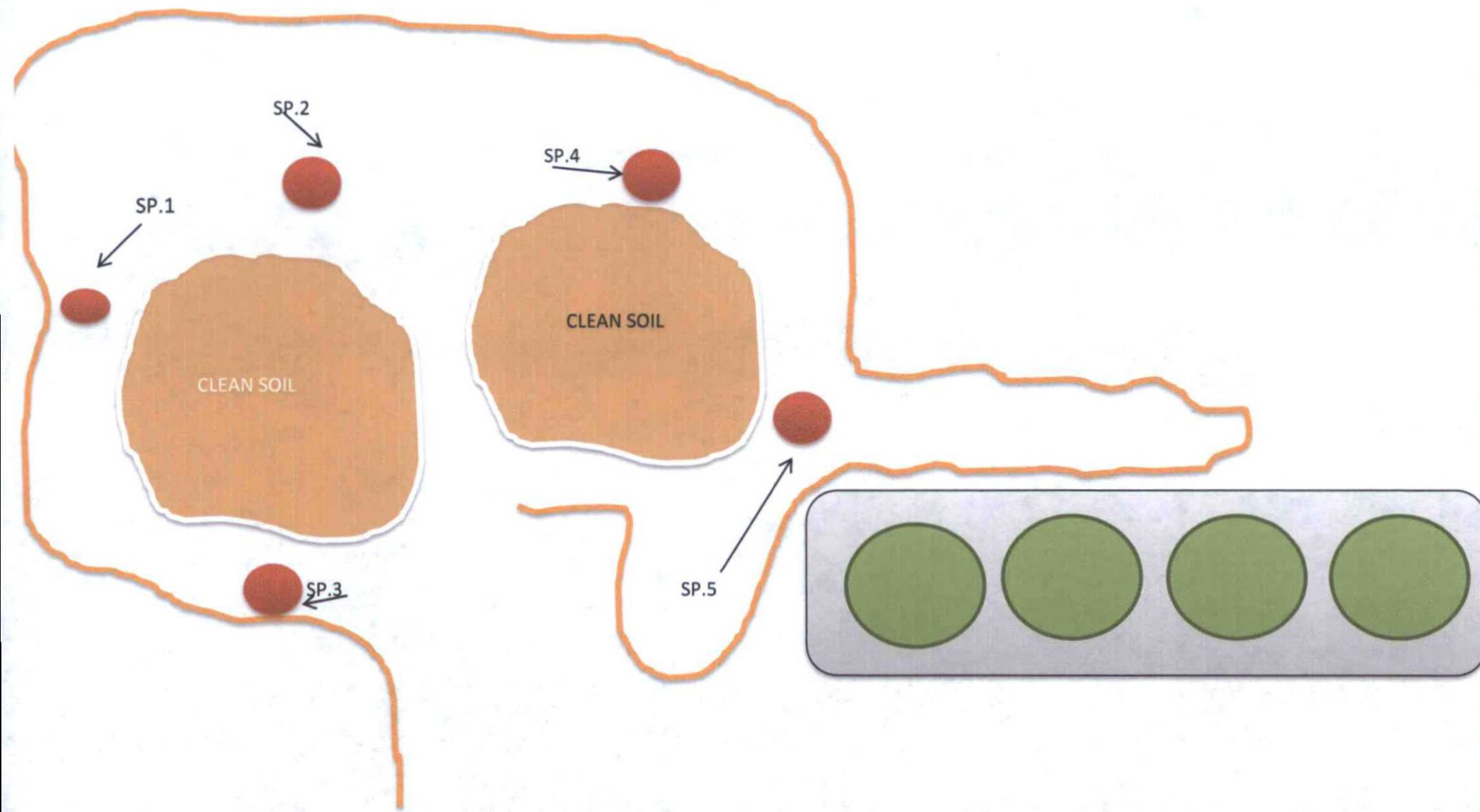
Relinquished By:		Date: 8/27/12		Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 2:35				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact		(Initials)			
30°				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		JTB			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-1476

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

M ALLON 35 FED#7

CIMAREX



Date: 24Aug12

[illegible][illegible][illegible]

Chlorides

[illegible]

GRO/DRO

[illegible]**BTEX**[illegible]

Chlorides

[illegible]

GRO/DRO

[illegible]

BTEX

[illegible]

Chlorides

[illegible]

GRO/DRO

[illegible]**BTEX**[illegible]

August 24, 2012

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: MALLON 35 FED #714

Enclosed are the results of analyses for samples received by the laboratory on 08/17/12 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #1 BOTTOM @ 5' (H201939-01)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	18.4	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #1 SOUTH WALL (H201939-02)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #1 EAST WALL (H201939-03)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90		
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61		
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60		
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14		

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 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	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0		
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5		

Surrogate: 1-Chlorooctane 82.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.1 % 63.6-154

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #1 WEST WALL (H201939-04)

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 99.5 % 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	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #2 BOTTOM @ 5' (H201939-05)
BTEX 8021B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/23/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 84.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.8 % 63.6-154

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Analytical Results For:

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #2 EAST WALL (H201939-06)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/23/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/23/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/23/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #2 WEST WALL (H201939-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	32.0	16.0	08/21/2012	ND	416	104	400	3.92	

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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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:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #3 BOTTOM @ (H201939-08)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	68.8	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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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: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #3 EAST WALL (H201939-09)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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Analytical Results For:

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

 Received: 08/17/2012
 Reported: 08/24/2012
 Project Name: MALLON 35 FED #714
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/17/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 WEST WALL (H201939-10)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	32.8	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.9 % 63.6-154

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Analytical Results For:

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

 Received: 08/17/2012
 Reported: 08/24/2012
 Project Name: MALLON 35 FED #714
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/17/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #4 BOTTOM @ 7' (H201939-11)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 98.5 % 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	32.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 75.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.6 % 63.6-154

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Analytical Results For:

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #4 EAST WALL (H201939-12)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 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	32.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 98.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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Analytical Results For:

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #4 WEST WALL (H201939-13)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	16.0	16.0	08/21/2012	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	08/21/2012	ND	191	95.4	200	1.37	
DRO >C10-C28	22.2	10.0	08/21/2012	ND	192	95.8	200	3.35	

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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Analytical Results For:

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #5 BOTTOM @ 5' (H201939-14)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 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	16.0	16.0	08/21/2012	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	08/21/2012	ND	191	95.4	200	1.37	
DRO >C10-C28	39.4	10.0	08/21/2012	ND	192	95.8	200	3.35	

Surrogate: 1-Chlorooctane 84.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

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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: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #5 EAST WALL (H201939-15)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 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	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 63.6-154

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Analytical Results For:

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

Received: 08/17/2012
Reported: 08/24/2012
Project Name: MALLON 35 FED #714
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #5 NORTH WALL (H201939-16)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 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	400	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	

Surrogate: 1-Chlorooctane 90.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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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

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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

Company Name: <u>Honey Horse Env. LLC</u>				BILL TO		ANALYSIS REQUEST													
Project Manager: <u>Vernon Birch</u>				P.O. #:															
Address: <u>Enrico Hwy</u>				Company:															
City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>		Attn:															
Phone #:		Fax #:		Address:															
Project #:		Project Owner: <u>Lincoln</u>		City:															
Project Name:				State: Zip:															
Project Location: <u>Mallon 35 Fed #714</u>				Phone #:															
Sampler Name: <u>Oxarc Engine</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		<div style="display: flex; justify-content: space-around; font-size: 2em;"> CL TPH BTEX </div>								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE						ICE / COOL	OTHER	DATE	TIME
H20A39	1 Sp#1 Bottom @ 5'	G	1			X				/								8-17-12	8:00
	2 Sp#1 South Wall	G	1			X				/								8-17-12	8:05
	3 Sp#1 East Wall	G	1			X				/								8-17-12	8:10
	4 Sp#1 West Wall	G	1			X				/								8-17-12	8:15
	5 Sp#2 Bottom @ 5'	G	1			X				/								8-17-12	8:20
	6 Sp#2 East Wall	G	1			X				/								8-17-12	8:25
	7 Sp#2 West Wall	G	1			X				/								8-17-12	8:30
	8 Sp#3 Bottom @	G	1			X				/								8-17-12	8:35
	9 Sp#3 East Wall	G	1			X				/								8-17-12	8:40
	10 Sp#3 West Wall	G	1			X				/								8-17-12	8:45

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 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 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: <u>[Signature]</u>	Date: <u>8-17-12</u> Time: <u>7:10</u>	Received By: <u>4odi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Time:			REMARKS: <u>Emil please!</u>

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u> (Initials)

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Hungry Horse Env. LLC</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Wm. B. Bledsoe</u>				P.O. #:																							
Address: <u>Ernie Hays</u>				Company:																							
City: <u>Hobbs</u> State: <u>N.M.</u> Zip: <u>88240</u>				Attn:																							
Phone #:				Address:																							
Project #:				City:																							
Project Name:				State: Zip:																							
Project Location: <u>Mallon 35 Rd 714</u>				Phone #:																							
Sampler Name: <u>Cheney Fray</u>				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													
H201939																											
	11 Sp#4 Bottom @ 7'	6	1			/				/			8-17-12	8:50	✓	1	X										
	12 Sp#4 East Wall	6	1			/				/			8-17-12	3:55	✓	1	X										
	13 Sp#4 West Wall	6	1			/				/			8-17-12	9:00	✓	1	X										
	14 Sp#5 Bottom @ 5'	6	1			/				/			8-17-12	4:05	✓	1	X										
	15 Sp#5 East Wall	6	1			/				/			8-17-12	9:10	✓	1	X										
	16 Sp#5 North Wall	6	1			/				/			8-17-12	9:15	✓	1	X										

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 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 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: <u>[Signature]</u>	Date: <u>8-17-12</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1:10</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>Email Please!</u>	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials)	

HOBBS OCD

AUG 28 2012

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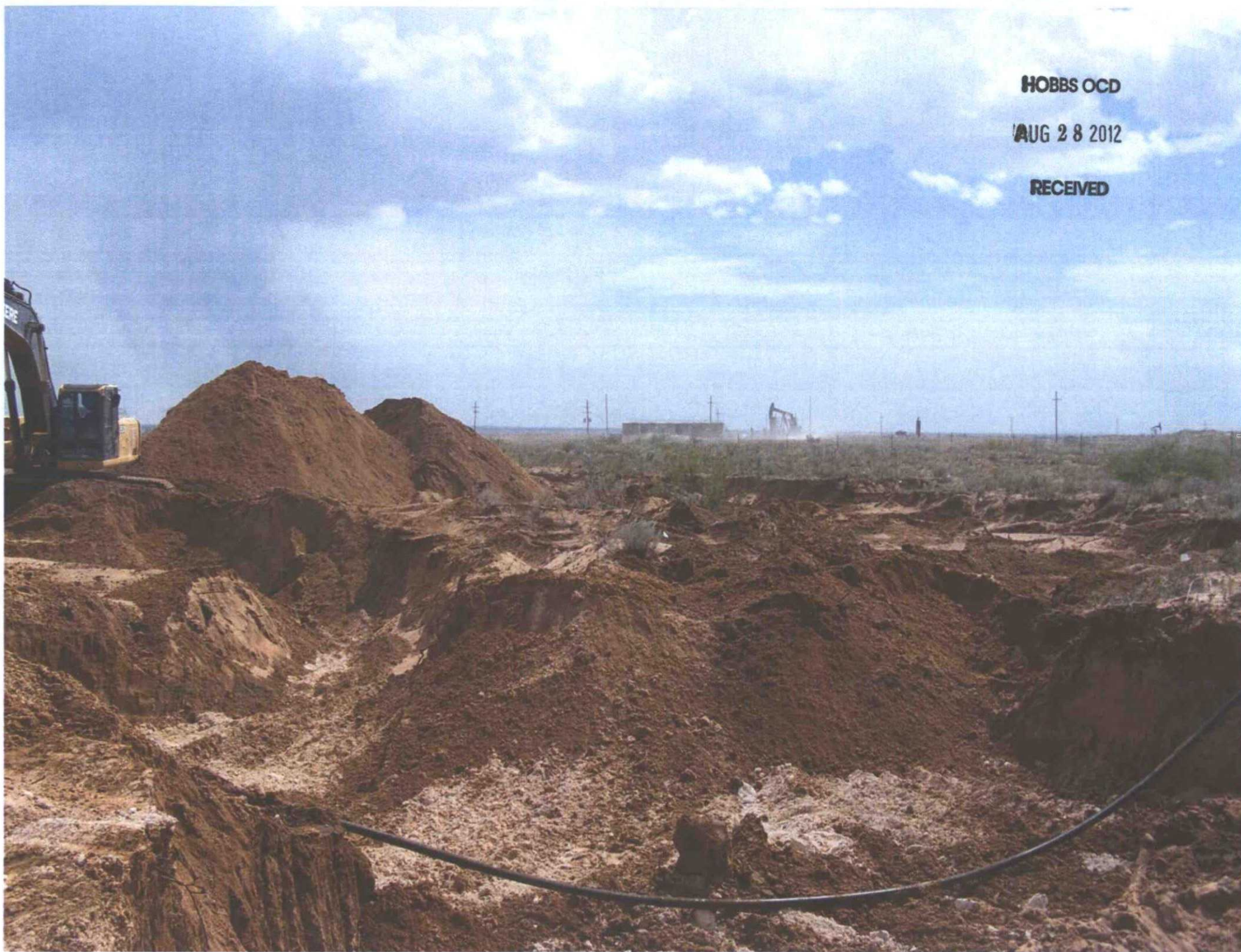


CIMAREX MALLON 35 FED #74

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CIMAREX MALLON 35 FED #7H



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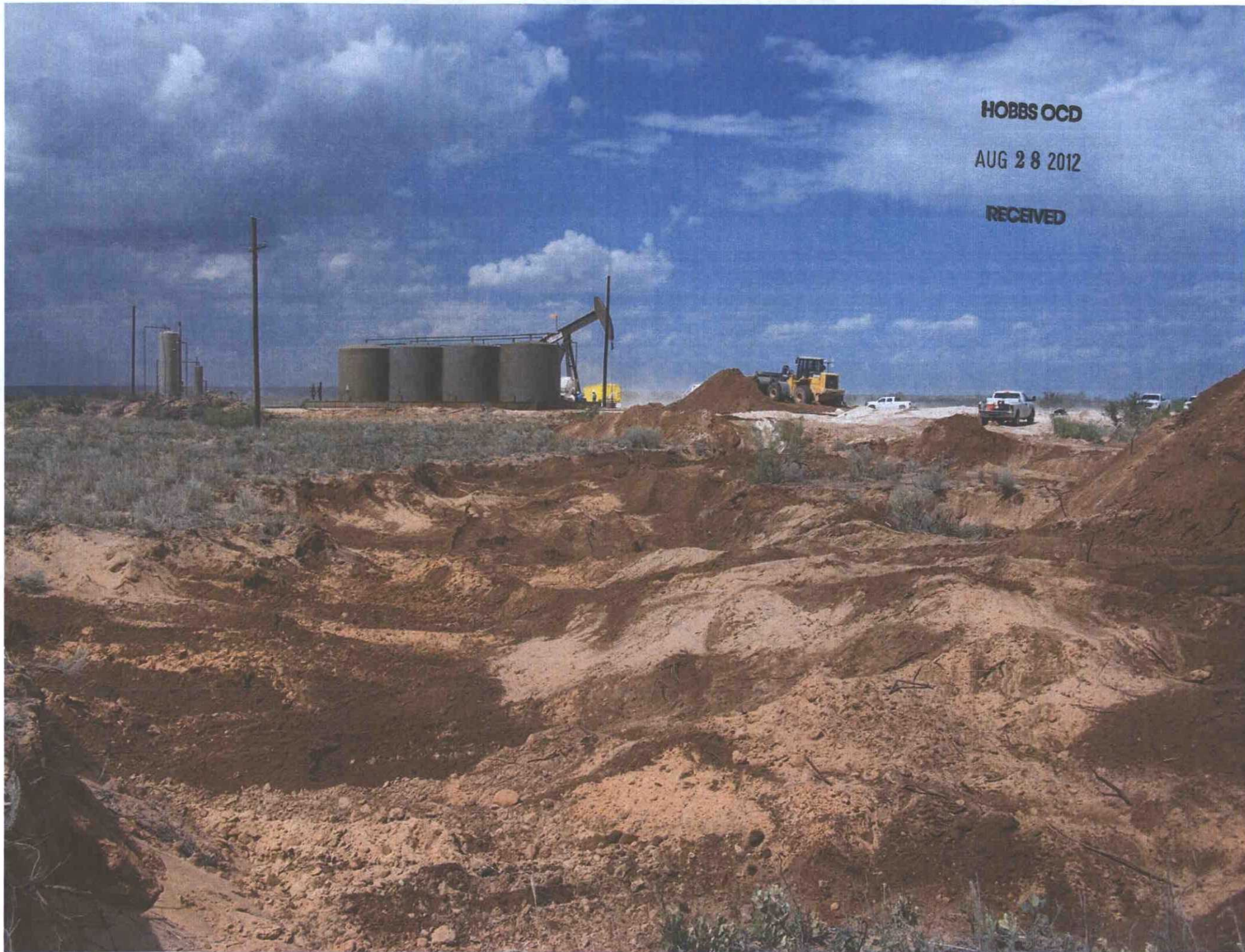
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CIMAREX MALLON 35 FED #7H

HOBBS OCD

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