



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

March 14, 2012

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FED F BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/09/12 15:30.

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](http://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: 03/09/2012  
 Reported: 03/14/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Amanda Ponce

**Sample ID: SP 2 1' BGS (H200619-01)**

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	03/12/2012	ND	1.84	92.1	2.00	5.25	
Toluene*	<0.050	0.050	03/12/2012	ND	1.98	99.0	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/12/2012	ND	2.03	102	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/12/2012	ND	6.30	105	6.00	3.47	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

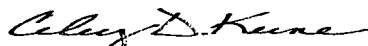
Surrogate: 1-Chlorooctane 95.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 97.1 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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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: 03/09/2012  
 Reported: 03/14/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Amanda Ponce

**Sample ID: SP 2 2' BGS (H200619-02)**

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	03/12/2012	ND	1.84	92.1	2.00	5.25	
Toluene*	<0.050	0.050	03/12/2012	ND	1.98	99.0	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/12/2012	ND	2.03	102	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/12/2012	ND	6.30	105	6.00	3.47	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

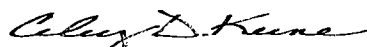
Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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\* = Accredited Analyte

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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: 03/09/2012  
 Reported: 03/14/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Amanda Ponce

**Sample ID: SP 3 1' BGS (H200619-03)**

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	03/12/2012	ND	1.84	92.1	2.00	5.25	
Toluene*	<0.050	0.050	03/12/2012	ND	1.98	99.0	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/12/2012	ND	2.03	102	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/12/2012	ND	6.30	105	6.00	3.47	

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

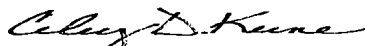
Surrogate: 1-Chlorooctane 79.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 77.0 % 57.6-158

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Fax To: (505) 391-4585

Received: 03/09/2012  
Reported: 03/14/2012  
Project Name: FED F BATTERY  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 03/09/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Amanda Ponce

**Sample ID: SP 3 2' BGS (H200619-04)**

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	03/12/2012	ND	1.84	92.1	2.00	5.25	
Toluene*	<0.050	0.050	03/12/2012	ND	1.98	99.0	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/12/2012	ND	2.03	102	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/12/2012	ND	6.30	105	6.00	3.47	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

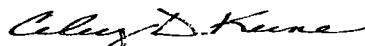
Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 105 % 57.6-158

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Fax To: (505) 391-4585

Received: 03/09/2012  
Reported: 03/14/2012  
Project Name: FED F BATTERY  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 03/09/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Amanda Ponce

**Sample ID: SP 4 1' BGS (H200619-05)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

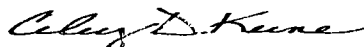
Surrogate: 1-Chlorooctane 90.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 85.2 % 57.6-158

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Received: 03/09/2012  
Reported: 03/14/2012  
Project Name: FED F BATTERY  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 03/09/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Amanda Ponce

**Sample ID: SP 4 2' BGS (H200619-06)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

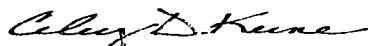
Surrogate: 1-Chlorooctane 85.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 83.6 % 57.6-158

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

 Received: 03/09/2012  
 Reported: 03/14/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Amanda Ponce

**Sample ID: SP 5 1' BGS (H200619-07)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/13/2012	ND	400	100	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	<100	100	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	1970	100	03/13/2012	ND	164	81.8	200	11.0	


Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 122 % 57.6-158

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Received: 03/09/2012  
Reported: 03/14/2012  
Project Name: FED F BATTERY  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 03/09/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Amanda Ponce

**Sample ID: SP 5 2' BGS (H200619-08)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	03/13/2012	ND	400	100	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	<100	100	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	568	100	03/13/2012	ND	164	81.8	200	11.0	

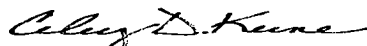
Surrogate: 1-Chlorooctane 99.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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**Analytical Results For:**

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

Received: 03/09/2012  
Reported: 03/14/2012  
Project Name: FED F BATTERY  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 03/09/2012  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Amanda Ponce

**Sample ID: SP 6 1' BGS (H200619-09)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/13/2012	ND	400	100	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	<100	100	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	1670	100	03/13/2012	ND	164	81.8	200	11.0	


Surrogate: 1-Chlorooctane 95.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 95.4 % 57.6-158

Cardinal Laboratories

\*=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: 03/09/2012  
 Reported: 03/14/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Amanda Ponce

**Sample ID: SP 6 2' BGS (H200619-10)**

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	03/13/2012	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	03/13/2012	ND	2.06	103	2.00	3.85	
Ethylbenzene*	<0.050	0.050	03/13/2012	ND	2.11	106	2.00	3.78	
Total Xylenes*	<0.150	0.150	03/13/2012	ND	6.61	110	6.00	3.63	

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/13/2012	ND	400	100	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	336	10.0	03/13/2012	ND	164	81.8	200	11.0	

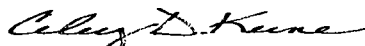
Surrogate: 1-Chlorooctane 99.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 113 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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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

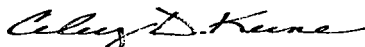
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Company Name: <u>Longway House</u> Project Manager: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Name: <u>F&amp;E Directory</u> Project Location: <u>Edgely Co</u> Sampler Name: _____		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D.	Sample I.D.	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV. ACID/BASE ICE/COOL OTHER
		# CONTAINERS	(G)RAB OR (C)OMP
		DATE	TIME
1	SP2 1' BG's	3/21/00	
2	SP2 2' BG's		
3	SP3 1' BG's		
4	SP3 2' BG's		
5	SP4 1' BG's		
6	SP4 2' BG's		
7	SP5 1' BG's		
8	SP5 2' BG's		
9	SP6 1' BG's		
10	SP6 2' BG's		

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Relinquished By: <u>[Signature]</u> Date: <u>3-21-00</u> Time: <u>1:00</u>	Received By: <u>[Signature]</u> Date: <u>3-21-00</u> Time: <u>1:00</u>	Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____
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REMARKS: Tested Longway House, Green Island

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