



July 10, 2014

RUDY LIZARDO
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: MGP WASTE OIL CLEANUP 6/2014

Enclosed are the results of analyses for samples received by the laboratory on 07/07/14 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 FRONTIER FIELD SERVICES
 RUDY LIZARDO
 4200 SKELLY DRIVE, SUITE 700
 TULSA OK, 74135
 Fax To: (575) 676-2401

Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: N WALL - 2ND SET (H402049-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.088	0.050	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	0.552	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	0.463	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	1.32	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	2.42	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	56.8	50.0	07/08/2014	ND	190	95.1	200	0.320		
DRO >C10-C28	1480	50.0	07/08/2014	ND	199	99.7	200	4.31		
EXT DRO >C28-C35	701	50.0	07/08/2014	ND						

Surrogate: 1-Chlorooctane 132 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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*=Accredited Analyte

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Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: N FLOOR - 2ND SET (H402049-02)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	<0.300	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	07/08/2014	ND	190	95.1	200	0.320		
DRO >C10-C28	687	50.0	07/08/2014	ND	199	99.7	200	4.31		
EXT DRO >C28-C35	445	50.0	07/08/2014	ND						

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 174 % 63.6-154

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* = Accredited Analyte

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Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: S WALL - 2ND SET (H402049-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.157	0.100	07/09/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	1.93	0.100	07/09/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	1.67	0.100	07/09/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	6.06	0.300	07/09/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	9.82	0.600	07/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	158	50.0	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	1310	50.0	07/08/2014	ND	199	99.7	200	4.31	
EXT DRO >C28-C35	572	50.0	07/08/2014	ND					

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 157 % 63.6-154

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Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: S FLOOR - 2ND SET (H402049-04)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	0.653	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	0.685	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	2.46	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	3.80	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	72.7	50.0	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	1810	50.0	07/08/2014	ND	199	99.7	200	4.31	
EXT DRO >C28-C35	695	50.0	07/08/2014	ND					

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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 Fax To: (575) 676-2401

Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: E WALL - 2ND SET (H402049-05)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	0.451	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	0.660	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	1.71	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	2.82	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	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	53.0	50.0	07/08/2014	ND	181	90.4	200	3.59	
DRO >C10-C28	433	50.0	07/08/2014	ND	207	103	200	4.68	
EXT DRO >C28-C35	234	50.0	07/08/2014	ND					

Surrogate: 1-Chlorooctane 129 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

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 RUDY LIZARDO
 4200 SKELLY DRIVE, SUITE 700
 TULSA OK, 74135
 Fax To: (575) 676-2401

Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: E FLOOR - 2ND SET (H402049-06)

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	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTEX	<0.300	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	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	<50.0	50.0	07/08/2014	ND	181	90.4	200	3.59	
DRO >C10-C28	386	50.0	07/08/2014	ND	207	103	200	4.68	
EXT DRO >C28-C35	296	50.0	07/08/2014	ND					

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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 Fax To: (575) 676-2401

Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: W WALL - 2ND SET (H402049-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.093	0.050	07/09/2014	ND	1.71	85.3	2.00	13.6	
Toluene*	0.391	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Ethylbenzene*	0.170	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Total Xylenes*	0.385	0.150	07/09/2014	ND	5.11	85.1	6.00	13.7	
Total BTEX	1.04	0.300	07/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	07/08/2014	ND	181	90.4	200	3.59		
DRO >C10-C28	457	50.0	07/08/2014	ND	207	103	200	4.68		
EXT DRO >C28-C35	417	50.0	07/08/2014	ND						

Surrogate: 1-Chlorooctane 129 % 65.2-140

Surrogate: 1-Chlorooctadecane 157 % 63.6-154

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Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: W FLOOR - 2ND SET (H402049-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.114	0.050	07/09/2014	ND	1.71	85.3	2.00	13.6	
Toluene*	0.997	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Ethylbenzene*	0.573	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Total Xylenes*	1.56	0.150	07/09/2014	ND	5.11	85.1	6.00	13.7	
Total BTEX	3.25	0.300	07/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	54.8	50.0	07/08/2014	ND	181	90.4	200	3.59		
DRO >C10-C28	585	50.0	07/08/2014	ND	207	103	200	4.68		
EXT DRO >C28-C35	579	50.0	07/08/2014	ND						

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 156 % 63.6-154

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 Fax To: (575) 676-2401

Received:	07/07/2014	Sampling Date:	07/07/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	MGP WASTE OIL CLEANUP 6/2014	Sampling Condition:	Cool & Intact
Project Number:	2	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR GAS PLANT		

Sample ID: M WALL - 2ND SET (H402049-09)

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	07/09/2014	ND	1.71	85.3	2.00	13.6	
Toluene*	0.470	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Ethylbenzene*	0.513	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0	
Total Xylenes*	1.73	0.150	07/09/2014	ND	5.11	85.1	6.00	13.7	
Total BTEX	2.72	0.300	07/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2014	ND	416	104	400	3.92	

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	69.7	50.0	07/08/2014	ND	181	90.4	200	3.59		
DRO >C10-C28	2150	50.0	07/08/2014	ND	207	103	200	4.68		
EXT DRO >C28-C35	970	50.0	07/08/2014	ND						

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 183 % 63.6-154

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* = Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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.
- 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



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Frontier Field Services</u>		P.O. #:					
Project Manager: <u>Roddy Kiyaado</u>		Company:					
Address: <u>4200 E Skelly, Suite 200</u>		Attn:					
City: <u>Tulsa</u>		Address:					
Phone #: <u>575 513 4922</u>		City:					
Project #: <u>2</u>		State:					
Project Name: <u>MGP - Waste Oil - Clean up</u>		Zip:					
Project Location: <u>Malvern Gas Plant</u>		Phone #:					
Sampler Name: <u>Harley Suckert</u>		Fax #:					
FOR LAB USE ONLY							
Lab I.D. <u>HH02049</u>	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME	ANALYSIS	RESULTS	REMARKS
		# CONTAINERS					
1	N-Wall - 2nd Set	✓	7-7-14	9:05	✓	✓	✓
2	N-Floor - 2nd Set	✓	7-7-14	9:08	✓	✓	✓
3	S-Wall - 2nd Set	✓	7-7-14	9:07	✓	✓	✓
4	S-Floor - 2nd Set	✓	7-7-14	9:08	✓	✓	✓
5	E-Wall - 2nd Set	✓	7-7-14	9:09	✓	✓	✓
6	E-Floor - 2nd Set	✓	7-7-14	9:10	✓	✓	✓
7	W-Wall - 2nd Set	✓	7-7-14	9:11	✓	✓	✓
8	W-Floor - 2nd Set	✓	7-7-14	9:12	✓	✓	✓
9	M-Floor 2nd Set	✓	7-7-14	9:13	✓	✓	✓
Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:		ACID/BASE:	ICE / COOL	OTHER:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>1.40</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials) <u>AS</u>				
Relinquished By: <u>[Signature]</u>		Date: <u>7-7-14</u>	Time: <u>14:20</u>				
Relinquished By: <u>[Signature]</u>		Date: <u>7-7-14</u>	Time: <u>14:20</u>				
Received By: <u>[Signature]</u>							
REMARKS: <u>Please email Results neverhart@akaenergy.com.</u>							

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54