



January 20, 2011

CLAY TIPTON

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: PARDUE D 2

Enclosed are the results of analyses for samples received by the laboratory on 01/14/11 8:46.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:**

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received: 01/14/2011  
 Reported: 01/20/2011  
 Project Name: PARDUE D 2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 01/13/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H100099-01)**

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 97.2 % 80-120  
 Surrogate: Toluene-d8 105 % 80-120  
 Surrogate: 4-Bromofluorobenzene 98.2 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	10500	50.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 99.7 % 70-130  
 Surrogate: 1-Chlorooctadecane 109 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	01/14/2011	Sampling Date:	01/13/2011
Reported:	01/20/2011	Sampling Type:	Soil
Project Name:	PARDUE D 2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H100099-02)**

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 99.1 % 80-120  
 Surrogate: Toluene-d8 107 % 80-120  
 Surrogate: 4-Bromofluorobenzene 102 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	55.7	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 94.0 % 70-130  
 Surrogate: 1-Chlorooctadecane 95.9 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received: 01/14/2011  
 Reported: 01/20/2011  
 Project Name: PARDUE D 2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 01/13/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

### Sample ID: SP 2 @ SURFACE (H100099-03)

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 103 % 80-120  
 Surrogate: Toluene-d8 103 % 80-120  
 Surrogate: 4-Bromofluorobenzene 102 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13000	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	111	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 98.1 % 70-130  
 Surrogate: 1-Chlorooctadecane 99.2 % 70-130

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BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received: 01/14/2011  
 Reported: 01/20/2011  
 Project Name: PARDUE D 2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 01/13/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H100099-04)**

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 106 % 80-120  
 Surrogate: Toluene-d8 105 % 80-120  
 Surrogate: 4-Bromofluorobenzene 101 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 89.0 % 70-130  
 Surrogate: 1-Chlorooctadecane 93.5 % 70-130

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### Analytical Results For:

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received: 01/14/2011  
 Reported: 01/20/2011  
 Project Name: PARDUE D 2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 01/13/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

### Sample ID: SP 3 @ SURFACE (H100099-05)

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 104 % 80-120  
 Surrogate: Toluene-d8 103 % 80-120  
 Surrogate: 4-Bromofluorobenzene 101 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 91.8 % 70-130  
 Surrogate: 1-Chlorooctadecane 92.0 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	01/14/2011	Sampling Date:	01/13/2011
Reported:	01/20/2011	Sampling Type:	Soil
Project Name:	PARDUE D 2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 2' (H100099-06)**

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane      104 %      80-120  
 Surrogate: Toluene-d8      106 %      80-120  
 Surrogate: 4-Bromofluorobenzene      111 %      80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane      93.1 %      70-130  
 Surrogate: 1-Chlorooctadecane      99.6 %      70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received: 01/14/2011  
 Reported: 01/20/2011  
 Project Name: PARDUE D 2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 01/13/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H100099-07)**

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 107 % 80-120  
 Surrogate: Toluene-d8 109 % 80-120  
 Surrogate: 4-Bromofluorobenzene 105 % 80-120

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 109 % 70-130  
 Surrogate: 1-Chlorooctadecane 108 % 70-130

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### Analytical Results For:

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	01/14/2011	Sampling Date:	01/13/2011
Reported:	01/20/2011	Sampling Type:	Soil
Project Name:	PARDUE D 2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SP 4 @ 2' (H100099-08)

BTEX 8260B		mg/kg		Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62		
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47		
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12		
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249		

Surrogate: Dibromofluoromethane 103 % 80-120

Surrogate: Toluene-d8 106 % 80-120

Surrogate: 4-Bromofluorobenzene 106 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/17/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/15/2011	ND	224	112	200	0.319		
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86		

Surrogate: 1-Chlorooctane 84.0 % 70-130

Surrogate: 1-Chlorooctadecane 87.3 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BTA Oil Producers  
 CLAY TIPTON  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	01/14/2011	Sampling Date:	01/13/2011
Reported:	01/20/2011	Sampling Type:	Soil
Project Name:	PARDUE D 2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BACKGROUND @ SURFACE (H100099-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/17/2011	ND	432	108	400	3.77		

**Sample ID: BACKGROUND @ 2' (H100099-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/17/2011	ND	432	108	400	3.77		

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Caley 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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Cardinal Laboratories

\*=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.



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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: <b>BTA Oil Products</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <b>Clay Tipton</b>		P.O. #:		TPH 41515015A BTEX CL-																				
Address: <b>104 S. Pecos</b>		Company: <b>BTA Oil Products</b>																						
City: <b>Midland</b> State: <b>TX</b> Zip: <b>79701</b>		Attn: <b>Clay Tipton</b>																						
Phone #: <b>575-369-5184</b> Fax #:		Address:																						
Project #:		City:																						
Project Name: <b>PARQUE D#2</b>		State: Zip:																						
Project Location: <b>PARQUE D#2</b>		Phone #:																						
Sampler Name: <b>Shanon Rusk</b>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR COMB.)	# CONTAINERS											MATRIX				PRESERV.	SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
H10009-1	SP1 @ Surface	✓	1			X							1/13/11	8:50										
2	SP1 @ 2'	✓	1			X							11	8:58										
3	SP2 @ Surface	✓	1			X							11	9:50										
4	SP2 @ 2'	✓	1			X							11	9:55										
5	SP3 @ Surface	✓	1			X							11	10:31										
6	SP3 @ 2'	✓	1			X							11	10:44										
7	SP4 @ Surface	✓	1			X							11	11:56										
8	SP4 @ 2'	✓	1			X							11	11:59										
9	Background @ Surface	✓	1			X							11	11:50										
10	Background @ 2'	✓	1			X							11	11:52										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim (even) 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: <i>[Signature]</i>	Date: <b>1-13-11</b>	Received By: <i>[Signature]</i>	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: <b>8:46</b>			REMARKS: <b>SRUSK@WINDSTREAM.NET</b>
Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials)	

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

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