CARDINAL

January 20, 2011

CLAY TIPTON

- 1

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 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

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

Cardinal Laboratories is accreditated 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. Kune

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

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 @ SURFACE (H100099-01)

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BTEX 8260B	mg/	kg	Analyze	d 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, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: AB			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% 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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Celen D.A Kune

Celey D. Keene, Lab Director/Quality Manager



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)

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BTEX 8260B	mg/	kg	Analyze	d 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 5	% 80-120)						
Surrogate: 4-Bromofluorobenzene	102	% 80-120)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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.Kune

Celey D. Keene, Lab Director/Quality Manager

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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 2 @ SURFACE (H100099-03)

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BTEX 8260B	mg/	kg	Analyze	d 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	Analyze	d 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	Analyze	d 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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Celuy D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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 2 @ 2' (H100099-04)

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BTEX 8260B	mg/	'kg	Analyze	d 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	ł						
Surrogate: 4-Bromofluorobenzene	101	% 80-120	I						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d 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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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



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 @ SURFACE (H100099-05)

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BTEX 8260B	mg/	'kg	Analyze	d 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	Analyze	d 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	Analyze	d 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. Keine

Celey D. Keene, Lab Director/Quality Manager

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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:	3	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	า:	NOT GIVEN		

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

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BTEX 8260B	mg/	kg	Analyze	d 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 5	% 80-120							
Surrogate: Toluene-d8	106 5	% 80-120							
Surrogate: 4-Bromofluorobenzene	111	% 80-120							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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. Keine

Celey D. Keene, Lab Director/Quality Manager

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 @ SURFACE (H100099-07)

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BTEX 8260B	mg/	kg	Analyze	d 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 9	% 80-120)						
Surrogate: Toluerie-d8	109 9	80-120)						
Surrogate: 4-Bromofluorohenzene	105 \$	% 80-120)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: AB		<u> </u>			
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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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

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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)

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BTEX 8260B	mg/	kg	Analyze	d 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 5	80-120							
Surrogate: 4-Bromofluorobenzene	106	80-120							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM		<u>-</u>			
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	Analyze	d 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.Kune

Celey D. Keene, Lab Director/Quality Manager

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

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Sampling Date:01/13/2011Sampling Type:SoilSampling Condition:Cool & IntactSample Received By:Jodi Henson

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	Analyze	d 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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*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any daim 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 lable for incidental or consequential damages, including those soft portis incurred by client, its subclares, affiltence or successors arising out 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. Kune

Celey D. Keene, Lab Director/Quality Manager

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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 SM4500CI-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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882	40																	
	(575) 393-2326 FAX (575) 393-247								_										
Company Name	Company Name: BTH OU PRECUCINS				BII	LL TO					A	ANALYSIS REQUEST							
Project Manage	r CLAY TIPPION 104 5. Pietos				P.(O. #:								, I					
Address:	104 S. Peters				Co	ompany: ${oldsymbol{ heta}}$	TACIL	PROJECT											
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Project Locatio	n: PAROUE DEZ				Ph	none #:			ŝ			Ì							
Sampler Name:					Fa	x #:			1274) 1										
FOR LAS USE ONLY	an and and a second	Γ	Π	MATRIX		PRESERV.	SAMPL	ING	414										
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	h Hdl	67日火	5								
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2	SP162'			X				8:38											
3	SP2P Supface	_	٤	X				9:50											
4	SP2@2'		1	×				9:55											
.5	SP3@ Sunface SP3@ J'			X			1.	10:31											
lo_	<u>SP30 2'</u>			X			1 \	10:44											·
	SPACe Surface	. _	<u>`</u>	X	·		<u>()</u>	11:54	_ }										
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	BACILGROUND 62'			we whether basis in sunfr	et or to	d shallbe finited t	s file amount o	id by the client for	then		mark and						_		
analyses. All claims includ	ing those for negligence and any other bause whatcoever shall be	deema	l waive	d upless made in writing a	nd rece	sived by Cardinal w	álhin 30 days a'	ter completion of U	e applicat	ble									

service. In ne event shall Cardinal be liable for incidential or consequential damages, industing without liaviation, taxiness interruptions, loss of use, or loss of profile bounded by client, its subsidiaries.

affixings or successors arising out of or related to the performanc	e of services hereunder by Cardinal, redataters of whether such claim is based upon any of the appre stated	ICREORS of CEREPASE.
Relinquished By:	Date: Received By: At	Phone Result: D Yes D No Add'l Phone #:
VIII of a	1-14-11 /1 m	Fax Result: 🗆 Yes 🗋 No 🛛 Add'l Fax #:
S. V. J.	Time: , / / KP / All of A BY /A	REMARKS:
Ve- Repe	8:46 Gren Jul Jul Done	SRUSKQWINOSTREAM WE +
Relinquished By:	Date: Received By:	
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- · ·	Cool Intact (Initfals)	
Sampler - UPS - Bus - Other:	- CO GYes Yes / Fix	
·	NO NO VIV	

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

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