

January 12, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW #181 SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/11/16 9:00.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	01/11/2016	Sampling Date:	01/07/2016
Reported:	01/12/2016	Sampling Type:	Soil
Project Name:	COTTON DRAW #181 SWD	Sampling Condition:	** (See Notes)
Project Number:	DEV-15-003	Sample Received By:	Jodi Henson
Project Location:	EDDY CO.		

Sample ID: TT-1 SURFACE (H600045-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 4' (H600045-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 6' (H600045-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 7' (H600045-04)

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	01/11/2016	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Safety & Environmental Solutions
 Bob Allen
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 Received: 01/11/2016
 Reported: 01/12/2016
 Project Name: COTTON DRAW #181 SWD
 Project Number: DEV-15-003
 Project Location: EDDY CO.

 Sampling Date: 01/07/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: TT-2 SURFACE (H600045-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 2' (H600045-06)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 4' (H600045-07)

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	01/11/2016	ND	432	108	400	3.77		

Sample ID: TT-2 5' (H600045-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 7' (H600045-09)

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	01/11/2016	ND	432	108	400	3.77		

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 Received: 01/11/2016
 Reported: 01/12/2016
 Project Name: COTTON DRAW #181 SWD
 Project Number: DEV-15-003
 Project Location: EDDY CO.

 Sampling Date: 01/07/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: TT-3 SURFACE (H600045-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 2' (H600045-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 4' (H600045-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 5' (H600045-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 7' (H600045-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2016	ND	432	108	400	3.77	

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Bob Allen
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Hobbs NM, 88240
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Received: 01/11/2016
Reported: 01/12/2016
Project Name: COTTON DRAW #181 SWD
Project Number: DEV-15-003
Project Location: EDDY CO.

Sampling Date: 01/07/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: TT-4 SURFACE (H600045-15)

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	01/11/2016	ND	432	108	400	3.77		

Sample ID: TT-4 2' (H600045-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-4 4' (H600045-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-4 5' (H600045-18)

Chloride, SM4500CI-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	01/11/2016	ND	448	112	400	3.64	

Sample ID: TT-4 7' (H600045-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2016	ND	448	112	400	3.64	

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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

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SEST		BILL TO		PO #:	
Project Manager:		Company: SAME			
Address: 703 E. CLINTON, #103		Altin:			
City: HOBBS		Address:			
Phone #: (505) 397-0510		City:			
Fax #: (505) 393-4388		State:		Zip:	
Project #: Def-15-003		Project Owner: Debra			
Project Name: Cotton Area 181		Phone #:			
Project Location: Sosa Jerry		Fax #:			
FOR LAB USE ONLY	LAB I.D.	Sample I.D.	MATRIX	PRES.	SAMPLING
		(G)RAB OR (C)OMP.	<input type="checkbox"/> CONTAINERS		
			<input type="checkbox"/> GROUNDWATER		
			<input type="checkbox"/> WASTEWATER		
			<input checked="" type="checkbox"/> SOIL		
			<input type="checkbox"/> OIL		
			<input type="checkbox"/> SLUDGE		
			<input type="checkbox"/> OTHER:		
			<input type="checkbox"/> ACID:		
			<input type="checkbox"/> ICE / COOL		
			<input type="checkbox"/> OTHER:		
		DATE	TIME		
H000045	1	TT-1 Surface	G/L	X	01/07 1030
	2	TT-1 4 ft	G/L	X	01/07 1045
	3	TT-1 6 ft	G/L	X	01/07 1115
	4	TT-1 7 ft	G/L	X	01/07 1200
	5	TT-2 Surface	G/L	X	01/07 1215
	6	TT-2 2 ft	G/L	X	01/07 1220
	7	TT-2 4 ft	G/L	X	01/07 1230
	8	TT-2 5 ft	G/L	X	01/07 1245
	9	TT-2 7 ft	G/L	X	01/07 1250
	10	TT-3 surface	G/L	X	01/07 1300

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Sampler Relinquished By: [Signature] **Date:** 01/11/06 **Received By:** Wade Henderson **Time:** 0800

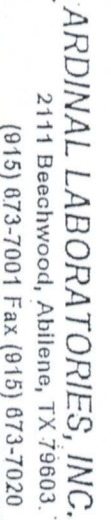
Relinquished By: [Signature] **Date:** 01/11/06 **Received By:** (Lab Staff)

Delivered By: (Circle One) **Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No ☐ No **CHECKED BY:** [Signature]

Remarks: [Handwritten notes]

Phone Result: ☐ Yes ☐ No **Additional Fax #:**

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and at cost of collection, including attorney's fees.



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Page 2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

Company Name: SEST		R.I.T.O. PO #:		ANALYSIS REQUEST															
Project Manager:		Company: SAME																	
Address: 703 E. CLINTON, #103		Attn:																	
City: HOBBS		Address:																	
Phone #: (505) 397-0510		City:																	
Fax #: (505) 393-4388		State:																	
Project #: Dev-15-003		Project Owner: Devon																	
Project Name: Cotton Draw 181		Phone #:																	
Project Location: Soda Jerry		Fax #:																	
FOR LAB USE ONLY		PRES.		SAMPLING															
LAB I.D.		Sample I.D.		MATRIX		DATE		TIME											
H000045		11		X		1310		1310		Chlorides									
12		X		1320		1320													
13		X		1330		1330													
14		X		1345		1345													
15		X		1400		1400													
16		X		1420		1420													
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