

April 06, 2016

MIKE STUBBLEFIELD

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ATOKA SAN ANDRES UNIT NO. 141

Enclosed are the results of analyses for samples received by the laboratory on 04/05/16 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab accred certif.html.

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-5 32.74652-104.33421 (H600722-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-6 32.74657	-104.33424 (H	1600722-02)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-7 32.74666	-104.33424 (H	1600722-03)							
Chloride, SM4500Cl-B	mg,	-	Analyze	d By: AP					
Chloride, SM4500CI-B Analyte	•	-	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B Analyte Chloride	mg	/kg	-	-	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Analyte Chloride Sample ID: S-8 32.74657	Result	Reporting Limit 16.0 1600722-04)	Analyzed	Method Blank ND		,	•		Qualifier
Analyte	mg, Result 368 -104.33415 (H	Reporting Limit 16.0 1600722-04)	Analyzed 04/06/2016	Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-9 32.74675-104.33413 (H600722-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	04/06/2016	ND	416	104	400	3.92	
Sample ID: S-10 32.7467	7-104.33413	(H600722-06)							
Sample ID: S-10 32.7467 Chloride, SM4500Cl-B		(H600722-06) /kg	Analyze	d By: AP					
•		•	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: S-11 2' BGS 32.74657-104.33421 (H600722-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/06/2016	ND	416	104	400	3.92	

Sample ID: S-12 2' BGS 32.74665-104.33421 (H600722-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/06/2016	ND	416	104	400	3.92	

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R T HICKS CONSULTANTS
MIKE STUBBLEFIELD
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-13 2' BGS 32.74673-104.33421 (H600722-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2016	ND	2.02	101	2.00	1.46	
Toluene*	<0.050	0.050	04/05/2016	ND	1.93	96.4	2.00	1.02	
Ethylbenzene*	<0.050	0.050	04/05/2016	ND	1.69	84.7	2.00	0.715	
Total Xylenes*	<0.150	0.150	04/05/2016	ND	5.28	88.1	6.00	0.873	
Total BTEX	<0.300	0.300	04/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/06/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2016	ND	175	87.3	200	6.15	
DRO >C10-C28	<10.0	10.0	04/05/2016	ND	163	81.4	200	6.29	
Surrogate: 1-Chlorooctane	85.7 %	% 35-147	7						

Sample ID: S-13 6' BGS (H600722-10)

Surrogate: 1-Chlorooctadecane

93.7 %

28-171

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/06/2016	ND	416	104	400	3.92	

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R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: 04/05/2016 Sampling Date: 04/05/2016

Reported: 04/06/2016 Sampling Type: Soil

Project Name: ATOKA SAN ANDRES UNIT NO. 141 Sampling Condition: Cool & Intact
Project Number: 30-015-10550 Sample Received By: Jodi Henson

Project Location: UT. J SEC. 13 T185 R26E

Sample ID: S-14 BACKGROUND 32.74677-104.33454 (H600722-11)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/06/2016	ND	416	104	400	3.92	

Sample ID: S-15 32.74688-104.33422 (H600722-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/06/2016	ND	416	104	400	3.92	

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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 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: A.T. Hicks Consultants		BILL TO	ANALYSIS REQUEST
Project Manager: Mike Stubble field	P.O. #:		
Address: 2411 South 13th Street	Compan	Company: LRE	
City: A. Tesia State: N.A. Zip: 88210	Attn:	Mike Barrett	
Phone #: 528-365-5034 Fax #:	Address	Address: R349-2 N. 2416 St.	
Project #: 30-015-10550 Project Owner: Line Rock Res	e Rack Res. City:	Artoga	
Project Name: A Toka San Andres Unit No. 141		State: NM Zip: 89210	
Project Location: UT 5 Sec. 13 T185 RALE		Phone #: 505-353- 2644	
Sampler Name: migels 6.0000 told	Fax #:		EK
┑	MATRIX PRESERV	SERV. SAMPLING	31
Historia. Sample I.D. (G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:	8015 M - TO 8020B - T Total CAI
5.5 32.7467-104,33421 G		-	
4x466, 401-65944. TE	\ \ \		
•		4/5/16 8:104	
		NS1:8 11/2/11	
	\	1 4/5/16 8: 20A	
5 81488 201-96947. 28 01-50		1 4/5/16 81254	
2 11 2	\ \		
8 5.12 2' 69532.7865 6		4/5/16 8:35.4	
9 5.13 2 695 22 24693 6	\	118/16 8:404	
10 5-13 6' 595 104.33421 G		1 4/5/16 9:00 A	
Ω	arising whether based in contract or tort, shall be	e limited to the amount paid by the client for	the

	Relinquished By: Relinquished By:	Times: Received By: Received By: Received By:	Phone Result:
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7. ..



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

			001100110011001100110	- 1
Company Name: R.T. Hicks Consultants	Consultants	BILLIO	A	ANALYSIS REQUEST
Project Manager: Mike STubble field	blefidd	P.O. #:		
Address: 24115. 13th Street	th Street	Company: LRE		
city: Artesia	State: NM Zip: 88210	Attn: Mike Barrett	7	
Phone #: 575-365-5034	234 Fax #:	Address: \$347-2 N. 2616	26/16/2	
Project #: 30 - 015 - 10 550	550 Project Owner: Line Rock Res	ē		
Project Name: Atoka San	Atoka San Andres visit No. 141	State: NM Zip: 88710	0	
Project Location: 41.7 56	C. 19-7185-R26E	Phone #: 505 353-2644	849	
Sampler Name: Michel State Lived	coolined	Fax #:	_	
FOR LAB USE ONLY		TRIX PRESERV. SAMPLING		
	RAB OR (C)OMPONTAINERS OUNDWATER ASTEWATER IL	UDGE HER: ID/BASE: E/COOL HER:	Total chlo	
77.1GOOTH	(G) # C	AC ICI OT	_	
11 S-14 B	S-14 Back ground A	VS1:5 21/5/4 /	W\$1:5	
12-15 5-15 32.74688	.74688	1 4/5/16 5:45 A	1 45%:5	
- 100	- 104, 33422		/	
		Transfered as fact shall be limited to the encount paid	hy the client for the	
PLEASE NOTE: Liability and Damages. Cardinal's	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 the client tor the	in contract or tort, shall be limited to the amount paid	by the client for the	

Miles Stolle news Relinquished By: analyses. All claims including those for negligence ar service. In no event shall Cardinal be liable for incide Time: Received By: ns, loss of use, or loss of profits incurred by client, its subsidiaries Fax Result: REMARKS: Phone Result: Rust!! ☐ Yes ☐ No Add'I Phone #:

Sample Condition

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

Ves Yes

No No

3.00

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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