District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

		A PLANT				OPERA	IUK		Initia	al Report	\times	Final Rep
		Linn Energy				Contact Ga				07.00		V 43.00
		ender Blvd.,					No. (575) 738-1			Rose I	1 5 6	not I
Facility Na	me East H	lobbs San Ar	ndres Uni	t #515, Unit K	I	Facility Typ	e Production P	ump Ja	ick	or In-		
Surface Ow	ner Arena	a Resources	Inc.	Mineral C	wner		,1		API No	. 30-025	-07941	7 17 5
				LOCA	TION	OF REI	LEASE			1 1 - 1		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County		
K	29	185	39E	1674	1	FSL	1167		FEL	Lea		
			La	titude		Longitud	le					
				NAT	URE	OF REL	EASE					
Type of Rele	ase Produc	ction Fluid		11111	CILL	Volume of			Volume I	Recovered		
		uction Pump .	Jack	X 1			Hour of Occurrence	ce		Hour of D	iscovery	
Was Immedi						If YES, To						
			Yes	No Not Re	equired							
By Whom?						Date and I						
Was a Water	course Read		1 v	L M.		If YES, Vo	olume Impacting	the Wat	ercourse.			
			Yes 🛚	NO								
Describe Car	use of Probl	em and Reme	edial Action	n Taken.*								
Describe Are A total of 4, #515, Unit K taken to a co a representat commercial	ea Affected 915 sq ft of C. Soil samp mmercial la ive composi- laboratory fo	and Cleanup and Cleanup and Cleanup and Cleanup and	Action Tak affected by ected from chloride an as taken fro	ten.* the release. On F three surface point d TPH (GRO/DR m the excavation firmation. Impac	O) analy bottom.	e release and yses. The lea The sample s were remov	field tested for ch k area was scrape was field tested if ed to a NMOCD	nlorides ed down for chlor	and hydroc to 6 inches rides and hy	arbons. The below growdrocarbon	ne sample ound surfa	s were the ace (bgs) a a sent to a
Describe Are A total of 4, #515, Unit K taken to a co a representat commercial backfilled with I hereby cert regulations a public health should their or the enviro	ea Affected 915 sq ft of L. Soil samp mmercial la ive composi laboratory fo ith clean, in ify that the ill operators or the envi operations h mment. In a	and Cleanup of pasture was a ples were collected and control of the sample was for chloride an apported soil, a information gare required to comment. The pave failed to	Action Tak affected by ected from chloride an as taken fro and TPH con and the site viven above to report ar e acceptance adequately OCD accep	ten.* the release. On F three surface point d TPH (GRO/DR m the excavation	nts in the O) analy bottom. eted soils the surrelete to the elease no ort by the emediate	e release and yes. The lea The sample s were remove ounding land the best of my otifications a e NMOCD me e contaminati	field tested for che k area was scrape was field tested feel to a NMOCD scape. knowledge and und perform correct arked as "Final Reson that pose a three the operator of	nlorides and down for chlor approve understa ctive act Report" (reat to g respons	and hydroc to 6 inches rides and hy d disposal and that purs- tions for rel does not rel round wate ibility for c	sarbons. The below growdrocarbon facility. The suant to Ni eases which ieve the open, surface woompliance	MOCD ruch may en erator of water, hung with any	s were the ace (bgs) a n sent to a ation was ales and danger liability nan health
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Describe Are A total of 4, #515, Unit K taken to a co a representat commercial backfilled wi I hereby cert regulations a public health should their or the enviro federal, state Printed Nam	ea Affected 915 sq ft of a. Soil samp mmercial la ive composi laboratory fo ith clean, in ify that the all operators or the envi operations h ment. In a c, or local lav e: Gary Wi	and Cleanup and Cleanup and Cleanup apasture was a ples were collegionatory for control of the sample was a ples were collegional and a ported soil, a series of the sample was a ples of the sample	Action Tak affected by ected from chloride an as taken fro and TPH con and the site viven above to report ar e acceptance adequately OCD accep	ten.* the release. On F three surface point d TPH (GRO/DR m the excavation firmation. Impact was contoured to is true and comp ad/or file certain r thee of a C-141 report investigate and r	nts in the O) analy bottom. eted soils the surrous lete to the elease noort by the emediate report do	e release and vses. The lea The sample is were remove ounding land the best of my ottifications are NMOCD me contaminations not relieve the sample of the contaminations are sample.	field tested for che k area was scrape was field tested for a NMOCD scape. knowledge and und perform correctarked as "Final Reform that pose a three the operator of OIL CON Environmental S	andersta ctive act creat to g respons	and hydroc to 6 inches rides and hy ed disposal and that purs- tions for rel does not rel round water ibility for control	suant to Ni eases which ieve the open, surface wompliance	MOCD ruch may en erator of water, hun	s were then the loce (bgs) and sent to a litton was alles and danger liability man health
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Describe Are A total of 4, #515, Unit K taken to a co a representat commercial backfilled wi I hereby cert regulations a public health should their or the enviro federal, state Printed Nam Title: Produ	ea Affected 915 sq ft of a. Soil samp mmercial la ive composi laboratory fr ith clean, in ify that the all operators or the envi operations h ment. In a c, or local law e: Gary Wi ction Forem	and Cleanup and Cleanup and Cleanup apasture was a ples were collegionatory for control of the sample was a ples were collegional and a ported soil, a series of the sample was a ples of the sample	Action Tak affected by ected from chloride an is taken fro id TPH con ind the site iven above to report an adequately ocd accep ulations.	ten.* the release. On F three surface point d TPH (GRO/DR m the excavation firmation. Impact was contoured to is true and comp ad/or file certain r thee of a C-141 report investigate and r	nts in the O) analy bottom. eted soils the surrelete to the elease noort by the emediate report do	e release and vses. The lea The sample is were remove ounding land the best of my ottifications are NMOCD me contaminations not relieve the sample of the contaminations are sample.	field tested for che k area was scrape was field tested for the detail to a NMOCD scape. knowledge and und perform correct arked as "Final Right for that pose a thing the operator of OIL CON States are the operator of the control	andersta ctive act creat to g respons	and hydroc to 6 inches rides and hy ed disposal and that purs- tions for rel does not rel round water ibility for control	suant to Ni eases which ieve the open, surface wompliance	MOCD ruch may en erator of water, hun with any	s were the ace (bgs) a n sent to a ation was ales and danger liability nan health



LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

appreved

Environmental Specialist

NMOCD-DIST (

East Hobbs San Andres Unit #515 Unit K

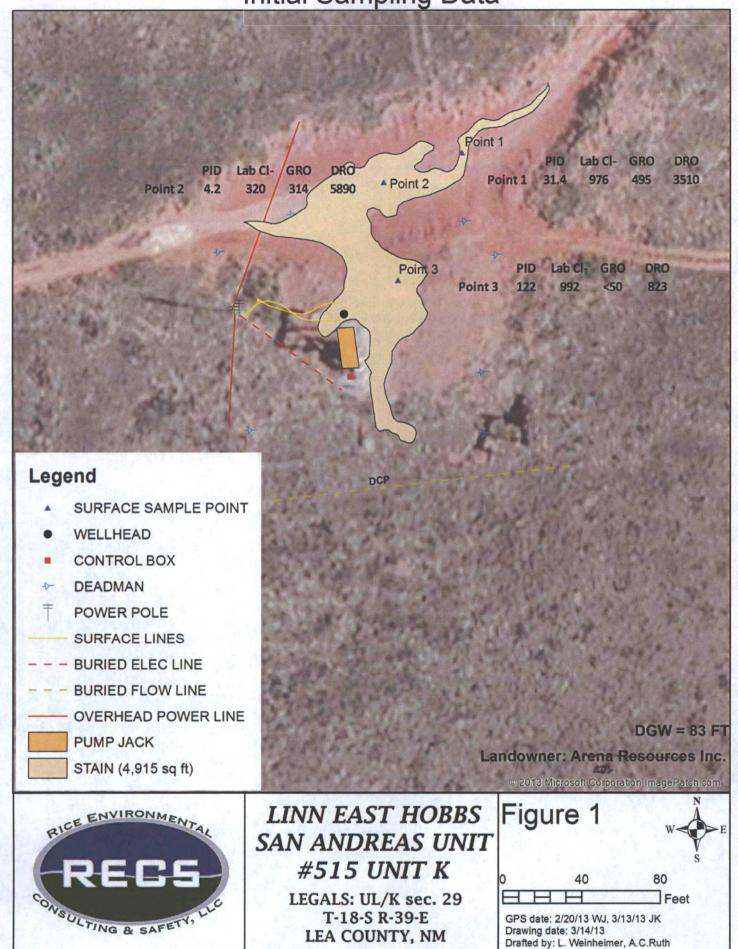
Closure Report

API 30-025-07941

Release Date: February 20th, 2013

Unit Letter K, Section 29, Township 18S, Range 39E

Initial Sampling Data



T-18-S R-39-E

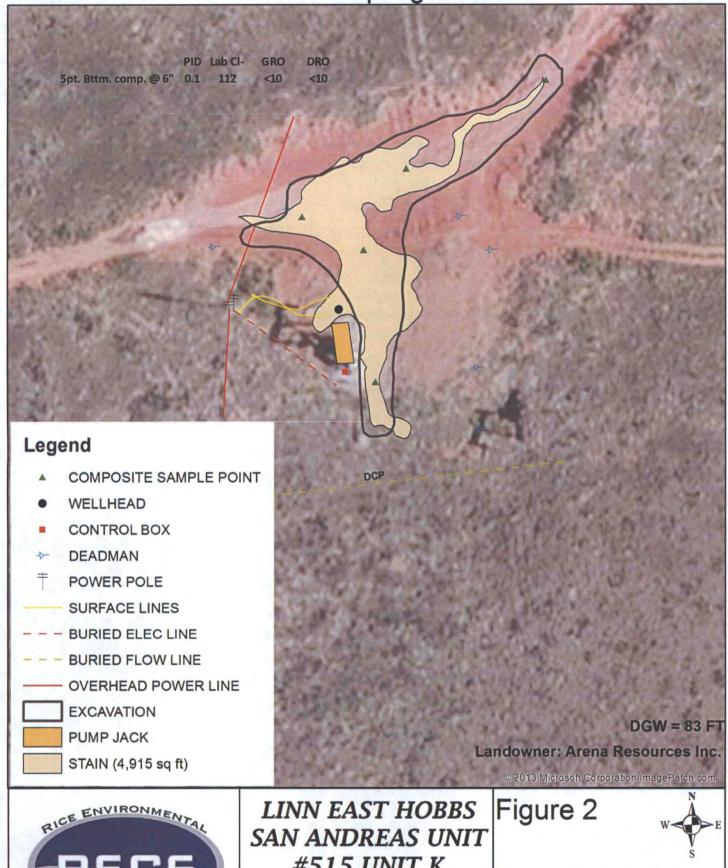
LEA COUNTY, NM

GPS date: 2/20/13 WJ, 3/13/13 JK

Drafted by: L. Weinheimer, A.C.Ruth

Drawing date: 3/14/13

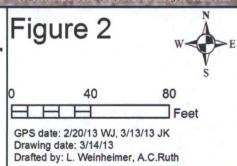
Final Sampling Data





#515 UNIT K

LEGALS: UL/K sec. 29 T-18-S R-39-E LEA COUNTY, NM





February 27, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: EAST HOBBS SAN ANDRES UNIT #515 UNIT R

Enclosed are the results of analyses for samples received by the laboratory on 02/20/13 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celeg 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



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER**

112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

02/20/2013

Sampling Date:

02/20/2013

Reported:

02/27/2013

Sampling Type:

Soil

Project Name:

EAST HOBBS SAN ANDRES UNIT #515 U

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 1 (H300468-01)

Chlorido CM4E00CL B

Analyzad Bur DW

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/25/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	4				S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	495	50.0	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	3510	50.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctane

149 %

65.2-140

Surrogate: 1-Chlorooctadecane

163 %

63.6-154

Sample ID: POINT 2 (H300468-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/25/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	314	50.0	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	5890	50.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctane

153 %

65.2-140

Surrogate: 1-Chlorooctadecane

196%

63.6-154

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240 Fax To: (575) 397-1471

Sampling Date:

02/20/2013

Received: Reported: 02/20/2013

Sampling Type:

Soil

Project Name:

02/27/2013

Sampling Condition:

Cool & Intact

EAST HOBBS SAN ANDRES UNIT #515 U

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 3 (H300468-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/25/2013	ND	416	104	400	3.77	
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	<50.0	50.0	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	823	50.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	90.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

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.

Celey D. Keene



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.

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

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 claims 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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

*ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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Company Name: RECS	RECS									BILL	BILL 70	0						AN	ALY	ANALYSIS REQUEST	REQ	UES	L			
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City: Hobbs.	State: NM	Zip	Zip: 88240	240				Attn:											JOI							-
Phone #:	Fax#:							Addi	Address:									V	U\-							
Project #:	Project Owner:	er:						City:						5	M		Н	-	1/5							
Project Name: /	Project Name: End Hills Son Andrea Wast # 515 am	515	31.18	22				State:			Zip:			səp	91		ЧΙ			-						
Project Location:							-	Phone #:	1e #:					Din	90.	Έ.				SC			-			
Sampler Name:	Will Tomber							Fax #:	**					Olr	3 F	-						_				
FOR LAB USE ONLY	(,	F			X	MATRIX		Ь	PRESERV	RV.	SAN	SAMPLING		C	10		_		91						_	
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hoonder@rice-ecs.com; Lweinheimer@rice-ecs.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; ☐ Yes ☑ No Add'l Phone#:
☐ Yes ☑ No Add'l Fax #: email results Phone Result: Fax Result: REMARKS: CHECKED BY: Sample Condition Cool Antact Received By: Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By

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

本了



March 19, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: EAST HOBBS SAN ANDRES UNIT #515 UNIT R

Enclosed are the results of analyses for samples received by the laboratory on 03/14/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celeg D. Keens

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:

RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

03/14/2013

Sampling Date:

03/13/2013

Reported:

03/19/2013

Sampling Type:

Soil

Project Name:

EAST HOBBS SAN ANDRES UNIT #515 U

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

Sample ID: 5 PT. BTTM COMP @ 6" (H300634-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/15/2013	ND	448	112	400	0.00	
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	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<10.0	10.0	03/15/2013	ND	192	95.9	200	0.902	
Surrogate: 1-Chlorooctane	81.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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† Cardinal cannot accept verbal changes. Please fax written changes to £751,393,2326

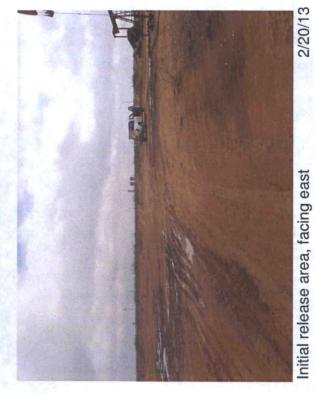
Linn East Hobbs San Andreas Unit #515, Unit K Unit Letter K, Section 29, T18S, R39E



Initial release area, facing south



Initial release area, facing southwest



Initial release area, facing east

Initial release photo, facing west

2/20/13



Excavating, facing southwest



2013/03/13



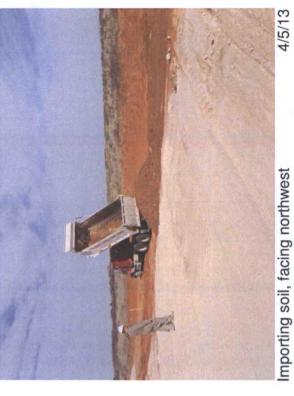
Excavating, facing north

3/13/13

Excavating, facing southeast



Exporting soil, facing south





Backfill completed, facing south

4/5/13

Backfilling site, facing east



4/5/13