



Linn Energy Turner B #103

CLOSURE REPORT

API No. 30-015-26665

LC-029395-B

Release Date: 12-10-2012, 07-02-2013

Unit Letter B, Section 20, Township 17 South, Range 31 East

April 29, 2014

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Turner B #103

1 INTRODUCTION

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southwest of Maljamar NM, in Eddy County. The leak sites resulted from two simultaneous leaks. The cumulative impact was 27 bbls. of produced water and crude oil. The first of which was as the result of freeze and rupture in a flow line. The initial form C-141 was submitted to the NMOCD January 07, 2011. As result of remediation efforts for a former leak on the Linn Energy site, Turner B #8 a line was struck near the Turner B #103 by Diversified Field Services (hereinafter referred to as DFSI) personnel. The later incident was recorded and submitted on the form C-141 to NMOCD on July 17, 2013, whereby the volume of produced water impact was 15 bbls., impacting pasture area with a fine mist (Appendix I).

2 SITE ACTIVITIES

Spill 1:

On March 10, 2014 DFSI personnel collected surface soil samples from the initial spill site which encompassed a 17,335 sq. ft. area (Figure). There was a total of 18 sample points established. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Simultaneous soil field testing revealed low Chloride and Hydrocarbon levels at 1 to 2 ft. below ground surface (bgs) (Figure). Chlorides analyses received from the commercial lab revealed acceptable levels, in that all sample points were between 175 mg/kg and 450 mg/kg at 2ft. bgs.

Spill 2:

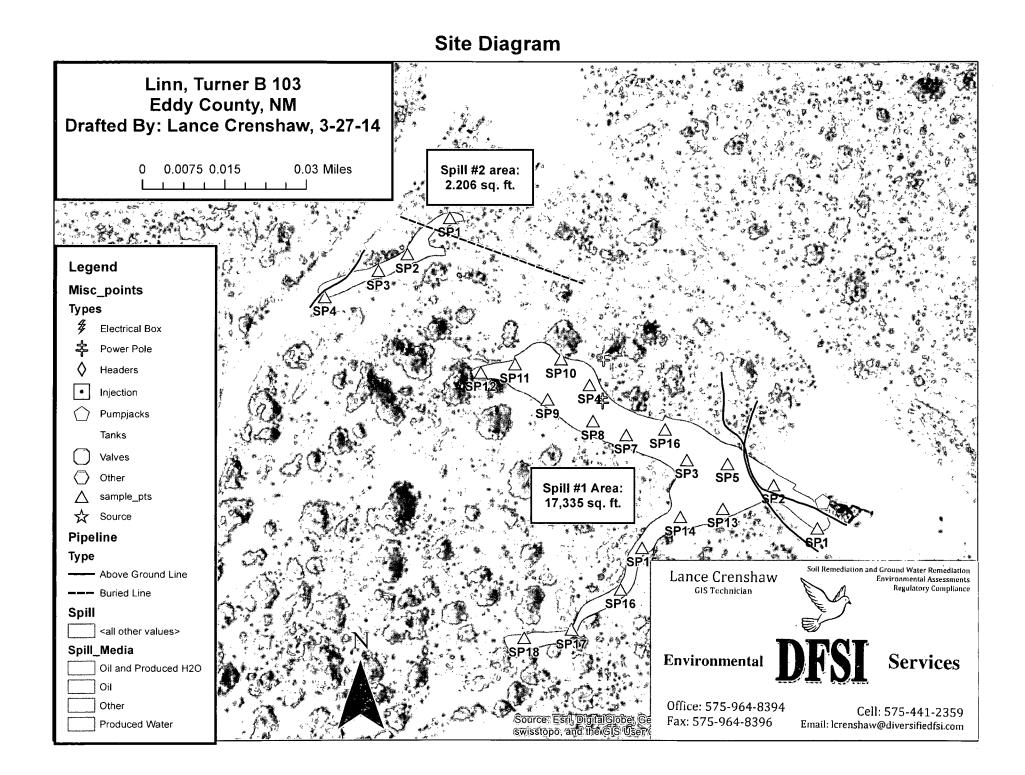
On April 07, 2014, DFSI personnel delineated the site for the second spill event. The area impacted was approximately 2,206 sq. ft. Therefore, it was determined to establish four (4) sample points, whereby all positions returned acceptable levels Chloride at surface. Lab confirmations of chloride results were at levels of <16 at 2 ft. bgs. to 448 mg/kg at 4ft. bgs on SP4. TPH totaled less than 10.0 mg/kg GRO and less than 10.0 mg/kg DRO, and BTEX totaled less than 0.300 mg/kg in all samples. Photographs of site activities can be viewed in Appendix II.

On April 08, 2014 DFSI submitted a request to remediate the site to NMOCD and NM BLM, whereby it was determined that all aforementioned surface samples returned analyses of Diversified Field Service, Inc. Page 100 Page

Chlorides levels that were below closure levels of 1000 ppm. Hence, the site would be strictly re-seeded per BLM guidelines and reevaluated at a later date. Therefore, on April 11, 2013, DFSI personnel re-seeded the site with 150 lbs. of Lesser Prairie Chicken seed mix, restoring it to its natural state.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 263 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141's (Appendix V) and respectfully requests the closures of the regulatory file for the site.



Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

District II	n Dr., Hobbs, I			-		New Mex and Natura	ICO Resources			Form C-141 Revised October 10, 2003
District [][csia, NM 88210	•	Oil (Conser	servation Division				Submit 2 Copies to appropriate
IG90 Rio Brazi			_			uth St. Francis Dr.				District Office in accordance with Rule 116 on back
Sel 25. St. Fra	ncis Dr., Sant	a Fe, NM 8750	5	Sa	inta Fe	, NM 875	05			side of form
			Rela	ease Notifi	cation	and Co	rrective A	ction		
		36672				OPER			X Initi	al Report 📋 Final Report
		nn Operating	3 34	09324 N.M. 88255		Contact Der	nis Potter No.505-206-767	12		
Facility Na				15-26660			e Producing we			
Surface Ov	vner BLM			Mineral (EM			Lease N	lo, LC-029395-B
									, would l	
Unit Letter	Section	Township	Range	Feet from the		NOF REI South Line	Feet from the	East/W	est Line	County
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		l	L	L	1			1		
			Latitu	de <u>32.82372</u>	·	Longitude				•
Type of Rel	ase Oil and	produced wa	ter	NAT	URE	OF REL	Release 12 bbls		Volume	Recovered 9 bbis
Source of Ro				<u> </u>	<u> </u>	Date and F	tour of Occurrent	ce	Date and	Hour of Discovery
Was (mmed	iate Notice	liven?				12/10/2010 If YES, To	and the second sec	L	12/10/20	10: 10:00-am
			Yes 🔲	No 🔲 Not Re	quired	BLM/Terr				
By Whom? Was a Water						Date and I	lour 12/10/2010	11:00am		
Wasa Water	course read] Yes X	No		IT YES, VO	lume Impacting	the Water	course.	
Describe Ca	use of Proble	em and Reme	dial Actio	n Taken.*			······			CEIVED
The flow lin The well was free fluids w	s shut-in and	t the flow line	ize and ph was repai	igged off, the flor ired. A vacuum tr	w line ruj uck was	ptured near the brought to the	e pumping unit. e location and			AN 07 2011 DCD ARTESIA
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District I 1625 N. French Dr., Hobbs, NM 88240			New Mexico JUL 17 2013 Form C-141						
District 11 1301 W. Grand Avenue, Artesia, NM 8 District 11	8210		lais and Matural Resources						
<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 874 District IV	19		nservation Division INMOCID APPES marapriate District Office in buth St. Francis Dr.						
1220 S. St. Francis Dr., Santa Fe, NM 8	ncna		e, NM 87505						
Tille	Release Notific	catior	n and Corrective Action						
	3552	I	OPERATOR Initial Report Final Report						
Name of Company: Linn Open Address: 2130 W. Bender H			Contact: Gary Wink Telephone No.: 575-738-1739						
Facility Name: Turner B 103			Facility Type: Oil producer						
Surface Owner: Federal	Mineral C)wner:	API No.: 3001526665						
			N OF RELEASE						
Unit LetterSectionTownslB2017S			vSouth Line Feet from the East/West Line County North 1370 East Eddy						
	Latitude: 32.823728	441022	25 Longitude: -103.887811333549						
		TURE	OF RELEASE						
Type of Release: Produced Water Source of Release: 2" poly flow li			Volume of Release: 15 bbls Volume Recovered: 0 Date and Hour of Occurrence: Date and Hour of Discovery: 1						
Was Immediate Notice Given?			07/02/2013 8:30am 07/02/2013 8:30am If YES, To Whom?						
	Yes No Not R	equired							
By Whom? Gary Wink Was a Watercourse Reached?			Date and Hour 07/17/2013 If YES, Volume Impacting the Watercourse.						
	🗌 Yes 🖾 No								
If a Watercourse was Impacted, E	escribe Fully.*:								
			:						
Describe Cause of Problem and R contaminated soil from a previous	emedial Action Taken.*: 2" pol i leak. This cut a 2" gap in line	y flow li releasin	line was run over by trakhoe being used by Diversified while excavating ng gas and a small amount a water, no oil.						
			•						
Describe Area Affected and Clean	up Action Taken * : Flow line		nediately shut in and leak was repaired. Approximately 15 gal. of water was						
released. Diversified picked up co	ntaminated soil and stock piled	on plasti	tic for future removal.						
I hereby certify that the information regulations all operators are requi	on given above is true and comp red to report and/or tile certain.	lete to the	the best of my knowledge and understand that pursuant to NMOCD rules and totifications and perform corrective actions for releases which may endanger						
public health or the environment.	The acceptance of a C-141 rep	ort by the	e NMOCD marked as "Final Report" does not relieve the operator of liability						
or the environment. In addition, N	MOCD acceptance of a C-141	report de	te contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other						
federal, state, or local laws and/or			OIL CONSERVATION DIVISION						
Signature: Harry	W. Wink								
Printed Name: Gary W. Wink			Approved by District SupervisorSigned By Mile Barrence						
Title: Production Foreman			Approval Date:						
E-mail Address: gawink@linnene		Conditions of Approval: Attached							
Date: 07/17/2013 * Attach Additional Sheets If Ne	Phone: 575-390-3477		Remediation per OCD Rule & Guidelines, &						
Than Additional Oncers it Ne	constant y	I	PROPOSAL NO LATER THAN:						
			Hugust 18,2013						

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Appendix II

SITE PHOTOGRAPHS

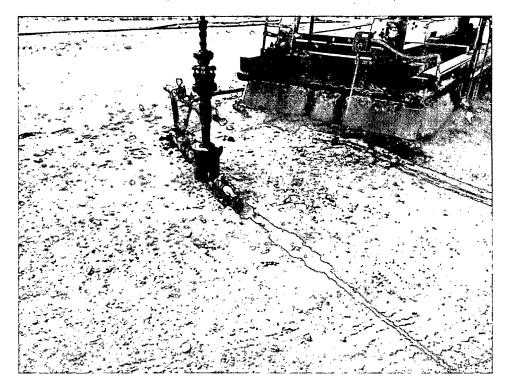
Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Linn Energy Turner B #103

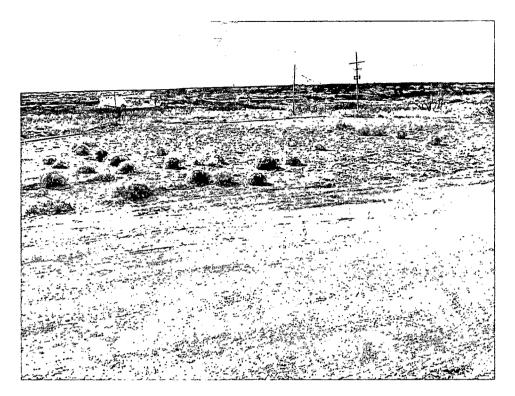
Unit Letter B, Section 20, T17S R31E



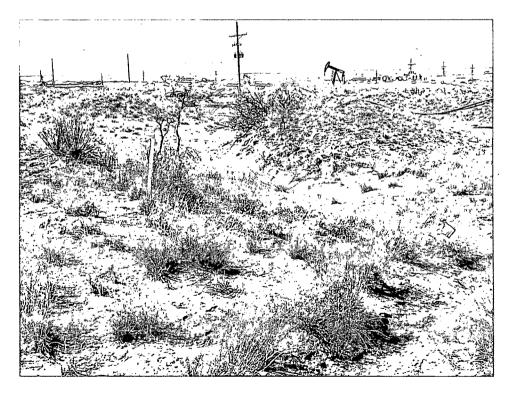
Sign Marking Location 03/07/14



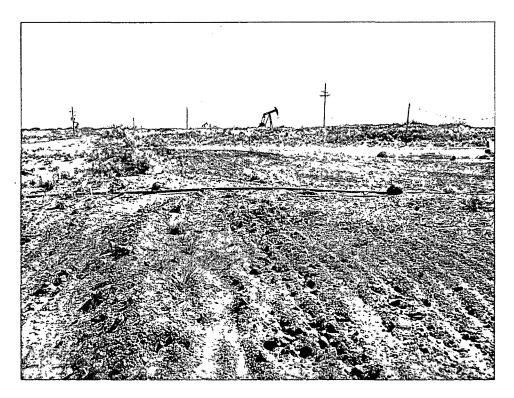
Initial spill area 03/07/14



Impacted pad and pasture area 03/07/14



Impacted pasture with sample points 03/21/14



 2^{nd} spill site pasture area at completion of seeding 04/28/14

Appendix III

GROUNDWATER **D**ATA

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

GROUND WATER SEARCH

Linn	Energy Turner B	#103	
UL: <u> </u>	<u>20</u> T:	<u>175</u> R:	31E
Groundwater Depth:	236	ft. average	d
• = NM Office of the State Engineer			Data: 04/24/14
 = U.S. Geological Survey (unknown well) Site Location)		Date: 04/24/14 By: Rebecca Pons
			by: hebeecar ons
		<u> 65' 260'</u>	
		0 0 021 0 0 021 0 248' 0275'	o5'
	288'o 314'-		L _ 1
16S 30E	16S 314 , 0 16S 31E 295	^{254'0} 165 32E	
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		° _{132'}	
17S 30E	17S 31E	17S 32E	
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		° _{65'}	
	098'	°430'	
18S 30E	098' 185 31E	18S 32E	
44'		0 460'	
		460'	

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Township, 16S Range 30E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POI been re O=orph C=the f closed)	placed aned, ile is	(quar						IE 3=SW largest)		3 UTM in meters)		(In feet)	,
POD Number	:	POD Sub- Jasin (County	-	Q 16		Sec	Tws	Rng	x	Y	•	Depth Water (Water Column
L 03435		L	LE		1			16S	-	602954	3646955 😽			
L 03852	R	L	LE	2	2	2	14	16S	31E	609126	3643913* 🏷	370	314	56
L 03852 POD4		L	LE	3	4	3	13	16S	31E	609744	3642516* 分	333	299	34
L 03852 POD5		L	LE		3	2	13	16S	31E	610238	3643427* 😓	328	295	33
L 03852 X	R	L	LE	4	4	4	13	16S	31E	610749	3642526 😽	333	299	34
L 03852 X2		L	LE	3	2	2	13	16S	31E	610535	3643733* 🎝	330	287	43
L_04671		L	LE	1	1	2	12	16S	31E	610114	3645538* 🕎	340	288	52
L 10203		٤	LE	4	4	3	14	16S	31E	608334	3642495* 🤯	310		
L 10206		L	LE		2	2	23	16S	31E	609045	3642204 😚	280		
											Average Depth t	o Water:	297 fe	eet

Minimum Depth: 287 feet Maximum Depth: 314 feet

Record Count: 9

PLSS Search:

Township 16S Range 31E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy completeness, reliability usability or suitability for any particular purpose of the data.



(B=POD has been replaced

(with Ownership Information)

			(iner ob has been replaced			
			and no longer serves this file,	(quarters are 1=NW 2=NE 3	3=SW 4=SE)	
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to lar	irgest) (NAD83 UTM i	n meters)
	Sub			qqq		
File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws	Rng X	Y
3435	L PRO 0 LOWE DRILLING COMPANY	LE <u>L 03435</u>		Shallow 1 1 05 16S	31E 602954	3646955

cord Count: 1

POD Search:

POD Number: L 03435

Sorted by: File Number

IM location was derived from PLSS - see Help

e data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completenability, usability, or suitability for any particular purpose of the data.



(with Ownership Information)

			(R≈POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=	SW 4=SE)
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to large	sI) (NAD83 UTM in meters)
	Sub			999	
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		LE <u>L 03852 POD4</u>		Shallow 3 4 3 13 16S 3	1E 609744 3642516 🙀
		LE <u>L 03852 POD5</u>	R	Shallow 3 2 13 16S 3	1E 610238 3643427 🙀
		LE <u>L 03852 POD6</u>		3 2 13 16S 3 ⁻	IE 610390 3643476 a
		LE <u>L 03852 X</u>	R	Shallow 4 4 4 13 16S 3	IE 610749 3642526 4
		LE <u>L 03852 X2</u>		Shallow 3 2 2 13 16S 3	IE 610535 3643733 🦼

:ord Count: 6

POD Search:

POD Number: L 03852

Sorted by: File Number

M location was derived from PLSS - see Help

data is turnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completenbility, usability, or suitability for any particular purpose of the data.



(with Ownership Information)

				and no longer serves this file,	(quarters are 1=NW 2	=NE 3=SW 4=	SE)	
	(acre It per annum)			C=the file is closed)	(quarters are smallest	to largest) (N	AD83 UTM	l in meters)
	Sub				q q q			
File Nbr	basin Use Diversion Owner	r Count	y POD Number	Code Grant	Source 6416 4 Sec	Tws Rng	х	Y
671	L PRO 0 JOHN	H. TRIGG LE	L 04671		Shallow 1 1 2 12	16S 31E	610114	3645538* 🕌

:ord Count: 1

POD Search:

POD Number: L 04671

Sorted by: File Number

M location was derived from PLSS - see Help

data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completenibility, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced O=orphaned,					(_) 1	N/ 0N	IF 2-014	14-05				
& no longer serves a water right file.)	C=the file is closed)							IE 3=SW largest)	•	UTM in meters)		(In feet	:)
	POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin (-		16	4	Sec			X	Y	Well	Water	Column
L 02381	L	LE		3	1	13	16S	32E	619086	3643515	308	215	93
L 02434	L	LΕ				01	16S	32E	619661	3646531 😽	337		
L 02449	L	LE				01	16S	32E	619661	3646531* 😽	330	265	65
L 02617	L	LE		4	4	02	16S	32E	618656	3645924* 🎸	322	270	52
L 02752	L	LE		1	3	26	16S	32E	617521	3639880* 🥳	324	280	44
L 02846	Ł	LE	4	2	1	11	16S	32E	617956	3645413* 😽	328	275	53
L 02954	L	١E		2	4	03	16S	32E	617043	3646310* 😽	120	65	55
L_02993	L	LE	3	3	2	15	16S	32E	616572	3643391* 😽	100		
L 03631	L	LE		1	2	02	16S	32E	618240	3647126* 🏷	315	250	65
L 04930	L	LE			1	23	16S	32E	617698	3642092* 🎸	307	210	97
L 05494	L	LE				36	16S	32E	619758	3638489" 🎲	303	200	103
L 06557	L	LE		1	4	21	16S	32E	615089	3641466* 🏘	295	210	85
L 06807	L	LE	1	4	4	09	16S	32E	615356	3644383* 🍪	290	248	42
L 07823	L	LE	2	2	2	16	16S	32E	615561	3643981* 🍪	269	247	22
L 08084	L	LE	1	1	1	16	16S	32E	614157	3643970* 🤯	317	260	57
L 08084 POD4	L	LE			2	26	16S	32E	618522	3640492* 😽	303	233	70
L 08084 POD5	L	LE	4	1	4	26	16S	32E	618425	3639788* 🌍	296	165	131
L 08084 S3	L	LE			2	26	16S	32E	618522	3640492* 🍎	305	205	100
L 08241	L	LE		4	4	02	16S	32E	618656	3645924* 🍪	316		
L 10204	L	LE	4	2	2	04	16S	32E	615524	3646993" 🍪	319		
L 10205	L	LE		4	1	08	16S	32E	613038	3645066* 🍪	330		
L 11189	L	LE	1	1	4	04	16S	32E	614932	3646391* 쵛	350		

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(H≈POD has been replaced and no longer serves this file,	(quarters are 1=NW 2≈NE 3=SW 4	=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in mete
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X
L 02381	L PRO	0 GULF REFINING COMPANY	LE <u>L 02381</u>		Shallow 3 1 13 16S 32E	619086 36435

Record Count: 1

POD Search:

POD Number: L 02381

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	(quarters are	1=NW 2=NE 3=SW 4=	=SE)	
	(acre f	t per annum)		C=the file is closed)	(quarters are	smallest to largest) (N	AD83 UTM in met	
	Sub				9 P	q		
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416	4 Sec Tws Rng	x	
L 02449	L PRO	0 PLYMOUTH OIL COMPANY	LE <u>L 02449</u>		Shallow	01 16S 32E	619661 36465	

Record Count: 1

POD Search:

POD Number: L 02449

Sorted by: File Number

'UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	, (quarters are 1=NW 2=NE 3=SW	4=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in met
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X
L 02617	L PRO	0 GULF OIL CORPORATION	LE <u>L 02617</u>		Shallow 4 4 02 16S 32E	618656 36459

Record Count: 1

POD Search:

POD Number: L 02617

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replac and no longer serves this	ed file, (quarters are 1=NW 2=NE 3=SW 4=SE)
	(acre f	t per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in me
	Sub				q q q
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X
L 02752	L DOL	3 W W WILLIAMS	LE <u>L 02752</u>		Shallow 1 3 26 16S 32E 617521 3639

Record Count: 1

POD Search:

POD Number: L 02752

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				and no longer serves this file.	(quarters are 1=NW 2=NE 3=SW 4	=SE)
	(acre f	t per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in met
	Sub				q q q	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416.4 Sec Tws Rng	х
L 02846	L PRO	0 CONTINENTAL OIL COMPANY	LE <u>L 02846</u>		Shallow 4 2 1 11 16S 32E	617956 36454

Record Count: 1

POD Search:

POD Number: L 02846

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this file.	(quarters are 1=NW 2=NE 3=SW	4=SE)
	(acre fi	per annum)		C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in met-
	Sub				q q q	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X
L 02954	L PRO	0 SCHOENFELD-HUNTER-KITCH DRG CO	LE <u>L 02954</u>		Shallow 2 4 03 16S 32E	617043 36463

Record Count: 1

POD Search:

POD Number: L 02954

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

			and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)	
	(acre It per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in met	
	Sub			999	
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X	
L 03631	L PRO 0 MAGNOLIA PETROLEUM COMPANY	LE <u>L 03631</u>		Shallow 1 2 02 16S 32E 618240 36471	

Record Count: 1

POD Search:

POD Number: L 03631

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				and no longer serves this file,	(quarters	are 1=N	NW 2=NE 3=SW 4	=SE)	
	(acre ft	per annum)		C=the file is closed)	(quarters	are sm	allest to largest) (NAD83 UTM in me	
	Sub					a a a			
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6	6416 4	Sec Tws Rng	X	
L 04930	L STK	3 JULIA WILLIAMS	LE <u>L 04930</u>		Shallow	1	23 16S 32E	617698 3642(

Record Count: 1

POD Search:

POD Number: L 04930

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

	(acre	ft per annum)		(R=POD has been replac and no longer serves this C=the file is closed)	file. (quarters are	e 1=NW 2=NE 3=SW 4 e smallest to largest) (
	Sub				qc	1 9		
WR File Nbr	basin Use Div	version Owner	County POD Number	Code Grant	Source 641	6 4 Sec Tws Rng	x	
L 05494	L COM	165 CITY OF CARLSBAD	LE <u>L 05494</u>		Shallow	36 16S 32E	619758 3638 [,]	

Record Count: 1

POD Search:

POD Number: L 05494

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(D. DOD has been conloced

(with Ownership Information)

			and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in me
	Sub			9 9 9
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X
L 06557	L STK 3 TAYLOR CATTLE COMPANY	LE <u>L 06557</u>		Shallow 1 4 21 16S 32E 615089 3641.

Record Count: 1

POD Search:

POD Number: L 06557

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in me
	Sub				q q q	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	X
L 06807	L PRO	0 SHARP DRILLING COMPANY	LE <u>L 06807</u>		Shallow 1 4 4 09 16S 32E	615356 3644:

Record Count: 1

POD Search:

POD Number: L 06807

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(B=POD has been replaced

(with Ownership Information)

				and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=	=SE)
	(acr	e ft per annum)		C=the file is closed)	(quarters are smallest to largest) (f	NAD83 UTM in met
	Sub				d d d	
WR File Nbr	basin Use D	Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	x
L 07823	L PRO	0 E R WEST ENGINEERING	LE <u>L 07823</u>		Shallow 2 2 2 16 16S 32E	615561 36439

Record Count: 1

POD Search:

POD Number: L 07823

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

			(R=POD has been replaced and no longer serves this file,					
	(acre ft per annum)		C=the file is closed)	(quarters are	e smalle	st to largest)	(NAD83 UTM in me	
	Sub			qq	P			
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 641	64 Se	c Tws Rng	x	
L 08084	L COM 750 MOR-WEST CORPORATION	LE <u>L 08084</u>		Shallow 1 1	1 16	16S 32E	614157 3643!	
		LE <u>L 08084 POD4</u>		Shallow	2 26	16S 32E	618522 3640 [,]	
		LE <u>L 08084 POD5</u>		Shallow 4 1	4 26	16S 32E	618425 3639	
		LE <u>L 08084 S</u>	R	Shallow 2 1	1 36	16S 32E	619239 3639 [.]	
		LE <u>L 08084 S2</u>	R	Shallow 3 1	1 36	16S 32E	619039 3638!	
		LE <u>L 08084 S3</u>		Shallow	2 26	16S 32E	618522 3640	

Record Count: 6

POD Search:

POD Number: L 08084

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

			(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)
	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in met-
	Sub			9 9 9
WR File Nbr	basin Use Diversion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng X
L_08084	L COM 750 MOR-WEST CORPORATION	LE L 08084 S3		Shallow 2 26 16S 32E 618522 36404

Record Count: 1

POD Search:

POD Number: L 08084 S3

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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Average Depth to Water:224 feetMinimum Depth:65 feetMaximum Depth:280 feet

Record Count: 22

PLSS Search:

Township, 16S

Range 32E



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Township 17S Range 30E

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	(quar						IE 3=SW largest)		3 UTM in meters)		(In feet)
	POD Sub-		Q	Q	Q						Depth	Depth Water
POD Number	Code basin	County	64	16	4	Sec	Tws	Rng	Х	Y	Well	Water Column
RA 11590 POD1		ED	2	1	3	32	17S	31E	603315	3628545 🏠	158	
RA 11590 POD3		ED	3	1	2	32	17S	31E	603932	3629260 🏷	60	
RA 11590 POD4		ED	4	1	1	32	175	31E	603308	3629253 😽	55	
										Average Depth to	Water:	
										Minimum	Depth:	
										Maximum	Depth:	

Record Count: 3

PLSS Search:

Township 17S Range 31E

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW####################################	(R=POD has been replace O≈orphaned C≈the file is closed)	d, (quar					NE 3=SM b largest)		3 UTM in meters)	<u></u>	(In feet)	
	POD											
POD Number	Sub- Code basin	Country		Q 16			Dee	x	Y		Depth Wat Water Colu	
L 04019	L	LE				2 17S		618468	3636166 67	182	Water Colu	1#1[1
L 04020	L	LE	3	3 4	1 02	17S	32E	618268	3636166* 🤣	200		
L 04021	RL	LE	3	4 4	1 02	17S	32E	618670	3636170*	190		
L 04021 POD3	L	LE		3 4	i 03	17S	32E	616761	3636252 😚	247		
L 04021 S	L	LE	2	4 4	03	17S	32E	617262	3636354 😽	260		
L 13047 POD1	L	LE			11	17S	32E	618187	3635254 - 🏷	140		
L 13050 POD1	L	LE	2	2	10	175	32E	616463	3635945 · 🏷	156	132	24
RA 08855		LE	4	1	10) 17S	32E	616061	3635742 .	158		
RA 09505		LE	2	2	10	17S	32E	616462	3635944 🦕	147		
RA 09505 S		LE	2	2	10) 17S	32E	616463	3635945 🎸	144		
RA 10175		LE		2	1 28	17S	32E	614814	3631005 👸	158		
RA 11684 POD1		LE	1	1 (1 11	17S	32E	618216	3635124 🦂	275		
RA 11684 POD2		LE	1	1 4	1 1	175	32E	618313	3635248 🦕	275		
RA 11684 POD3		LE	3	3	1 11	17S	32E	618262	3635371 😓	275		
RA 11684 POD4		LE	1	3	2 1	17S	32E	618334	3635521 🎸	275		
RA 11684 POD5		LE	3	1	\$ 1°	17S	32E	618353	3635047 🏷	275		
RA 11734 POD1		LE	2	2	1 10) 17S	32E	616556	3635929 🍪	165		
									Average Depth	o Water:	132 feet	
									Minimu	m Depth:	132 feet	

Maximum Depth: 132 feet

Record Count: 17

PLSS Search:

Township: 17S Range: 32E

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

No PODs found.

POD Search:

POD Number: L 13050 1

data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completenbility, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	d, (quar					E 3=SW largest)	,	3 UTM in meters)		(In fee	t)
POD Number	POD Sub- Code basin	-		54	Sec		-	X		Well		Water Column
CP 00818 CP 00819		LE LE	1 2	4 4		18S 18S		599289 594878	3620364* 🎲 3618720* 🎲	240 150		
L 01978	L	LE	1	3	23	18S	30E	598469	3621964* ờ	65	44	21
									Average Depth to	o Water:	44	feet
									Minimur	n Depth:	44 1	feet
									Maximun	n Depth:	44 (feet
Record Count: 3												

Record Count: 3

PLSS Search:

Township 18S Range 30E

*UTM location was derived from PLSS - see Help

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this lile,						• 1
	(acre ft	per annum)		C=the file is closed)	(quarters	s are sn	nalles	it to largest)	(NAD83 UTI	vi in me
	Sub					q q q				
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source (6416 4	Sec	Tws Rng	x	
L 01978	L DOM	3 L A JOHNSON	LE <u>L 01978</u>		Shallow	13	23	18S 30E	598469	36215

Record Count: 1

POD Search:

POD Number: L 01978

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O≕orphaned, C=the file is closed)	(quar				IE 3=SW (largest)		3 UTM in meters)		(In feet)	
	POD										
	Sub-		QQ			_				Depth	
POD Number	Code basin C	County	64 16	4 Se	c Tws	Rng	X	Y	Well	Water C	Column
L 11092	L	LE	2	3 15	18S	31E	606849	3623669 🏷	160	98	62
								Average Depth to	Water:	98 fe	et
								Minimum	Depth:	98 fe	et
								Maximum	Depth:	98 fe	et
Record Count: 1											

PLSS Search:

Township 18S Range, 31E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

				(H=POU has been replaced and no longer serves this file.	(quarters are 1=NW 2=NE 3=SW 4=	=SE)
	(acre It	per annum)		C=the file is closed)	(quarters are smallest to largest) (N	AD83 UTM in met
	Sub				999	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	x
L 11092	L DOM	3 NEW HOPE BAPTIST	LE <u>L 11092</u>		Shallow 2 3 15 18S 31E	606849 36236

Record Count: 1

POD Search:

POD Number: L 11092

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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12/18/13 2:44 PM



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned, C=the file is closed)	(quar					E 3=SW largest)		3 UTM in meters)		(In feet)	
POD Number CP 00566	POD Sub- Code basin	County LE	16	4		Tws 18S	-	X 614960	۲ 3627280 • بي	•	Depth Water (65	
CP 00672		LE	4	4	07	18S	32E	612475	3624947* 😓	524	430	94
CP 00672 CLW475398	0	LE	4	4	07	18S	32E	612475	3624947 . 🎸	540	460	80
CP 00677		LE	1	۱	26	18S	32E	617750	3621373 * 😓	700		
									Average Depth to	o Water:	318 fe	et
									Minimun	n Depth:	65 fe	eet
									Maximun	n Depth:	460 fe	et

Record Count: 4

PLSS Search:

Township 18S Range 32E

*UTM location was derived from PLSS - see Help



(with Ownership Information)

_				(R=POD has been replaced and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4	=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in mel
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Record Count: 1

POD Search:

POD Number: CP 00566

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, compreliability, usability, or suitability for any particular purpose of the data.



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(with Ownership Information)

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	(acre l	t per annum)		C=the file is closed)	(quarter	rs are si	nalles	st to largest) (NAD83 UTM	l in met
	Sub					9 9 9				
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Code Grant	Source	6416 4	Sec	Tws Rng	X	
CP 00672	STK	3 VIRGIL LINAM ESTATE	LE <u>CP 00672</u>		Shallow	44	07	18S 32E	612475	36249

Record Count: 1

POD Search:

POD Number: CP 00672

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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12/18/13 2:46 PM



(with Ownership Information)

No PODs found.

POD Search:

POD Number: CP 00672 CLW475398

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(with Ownership Information)

				(R=POD has been replaced and no longer serves this file,	, (quarters are 1=NW 2=NE 3=SW 4	I=SE)
	(acre ft	per annum)		C=the file is closed)	(quarters are smallest to largest)	NAD83 UTM in met
	Sub				4 4 4	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Code Grant	Source 6416 4 Sec Tws Rng	x
CP 00677	PRO	0 T X O PROD.	LE <u>CP 00677</u>		1 1 26 18S 32E	617750 36213

Record Count: 1

POD Search:

POD Number: CP 00677

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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Appendix IV

LABORATORY ANALYSES

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Diversified Field Service Inc.

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



March 24, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER B #103

Enclosed are the results of analyses for samples received by the laboratory on 03/17/14 16:45.

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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 4' (H400803-01)

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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC 102 % 89.4-126

123 %

63.6-154

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/19/2014	ND	416	104	400	0.00	
ТРН 8015М	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	03/19/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	213	106	200	2.35	

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 4' (H400803-02)

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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/19/2014	ND	416	104	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	03/19/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	213	106	200	2.35	
Surrogate: 1-Chlorooctane	108 %	65.2-14	0	· ·· ·· ··			· · ·		
Surrogate: 1-Chlorooctadecane	1149	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 7 @ 4' (H400803-03)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE 105 % 89.4-126

Chloride, SM4500CI-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	03/19/2014	ND	416	104	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	03/20/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	213	106	200	2.35	
Surrogate: 1-Chlorooctane	117	65.2-14	0						
Surrogate: 1-Chlorooctadecane	121	63.6-15	4						

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 8 @ 6' (H400803-04)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					
	<0.500	0.00	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/19/2014	ND	416	104	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	03/20/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	213	106	200	2.35	
Surrogate: 1-Chlorooctane	117 :	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 9 @ 4' (H400803-05)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE 102 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/19/2014	ND	416	104	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	03/20/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	213	106	200	2.35	
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/17/2014	Sampling Date:	03/17/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 10 @ 4' (H400803-06)

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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 102 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Anałyże	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/19/2014	ND	416	104	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	03/20/2014	ND	225	112	200	5.05	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	213	106	200	2.35	

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey Di Keine

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 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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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

101 East Marland, Hobbs, NM 88240 (575) 203.2226 EAY (575) 393.2476

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March 24, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER B #103

Enclosed are the results of analyses for samples received by the laboratory on 03/17/14 16:45.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/17/2014	Sampling Date:	03/15/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 1 @ 20' (H400804-01)

BTEX 80218	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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	03/19/2014	ND	416	104	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	03/20/2014	ND	197	98.7	200	0.404	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	192	95.9	200	0.866	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						<u></u>
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's lability 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 whitsbeever shall be deemed waived unless made in writing and received by claims, including those for negligence and including, without limitabon, business interruptions, loss of use, or loss of profits included 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 based on any of the bayes table feasions or otherwse. Results relate only to the samples identified above. This reprodued exception in full with mitten approval of Cardinal Laboratories.

Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/17/2014	Sampling Date:	03/15/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 2 @ 6' (H400804-02)

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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/19/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					

Method Blank

ND

ND

BS

197

192

% Recovery

98.7

95.9

True Value QC

200

200

RPD

0.404

0.866

Qualifier

Analyzed

03/20/2014

03/20/2014

Reporting Limit

10.0

10.0

65.2-140

63.6-154

Result

<10.0

<10.0

116 % 117 %

Cardinal Laboratories

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

GRO C6-C10

DRO >C10-C28

*=Accredited Analyte

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/17/2014	Sampling Date:	03/15/2014
Reported:	03/24/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 4 @ 13' (H400804-03)

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	03/19/2014	ND	2.01	101	2.00	0.775	
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115	
Total BTEX	<0.300	0.300	03/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/20/2014	ND	400	100	400	3.92	
ТРН 8015М	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	03/20/2014	ND	197	98.7	200	0.404	
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	192	95.9	200	0.866	
Surrogate: 1-Chlorooctane	109	% 65.2-14	0				·		
Surrogate: 1-Chlorooctadecane	117 :	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Kune

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 $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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April 02, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER B #103

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 14:10.

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/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/19/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 12 @ 12' (H400900-01)

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	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	· Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	84.4	% 65.2-14	0					-	
Surrogate: 1-Chlorooctadecane	90.3	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/19/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 13 @ 4' (H400900-02)

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	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500Cl-8	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	93. I	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.3	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/19/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 15 @ 4' (H400900-03)

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	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	90.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89. <i>3</i>	% 63.6-15	4						

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Celey Di Keena

Celey D. Keene, Lab Director/Quality Manager

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LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/20/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 16 @ 4' (H400900-04)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	84.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.3	% 63.6-15	4						

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/20/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 17 @ 4' (H400900-05)

BTEX 80218	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	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Anałyze	d By: AP		_		<u> </u>	
Analyte	· Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	83.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.6	% 63.6-15	4						

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	03/26/2014	Sampling Date:	03/20/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 18 @ 4' (H400900-06)

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	04/02/2014	ND	2.60	130	2.00	9.41	
Toluene*	<0.050	0.050	04/02/2014	ND	2.46	123	2.00	9.27	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.40	120	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	6.84	114	6.00	9.37	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC 111 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	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	03/28/2014	ND	233	117	200	2.35	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	221	110	200	2.39	
Surrogate: 1-Chlorooctane	89.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.2	% 63.6-15	4						

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Celey D. Kune

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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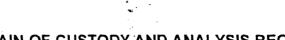
Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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analyses. All claims inclu service. In no event shall	and Damages. Cantinal's kability and client's exclusive remedy for ding those for negligence and any other cause whatsoever shall be Candral be liable for invicental to consequential damages, includior ising out of or related to the performance of services "hereunder by By: Date:	deemed v ig without li Cardinal_ri	kaive limitat eqard	d unless tion, busit	made i iness in whether	in writing nterruption	and re ns, loss	ceived totuse	try Car 1, or los	danalw asotpr	ithin 30 days after of the incurred by e	er completion of t client, its subsidia asons of otherwit Phone Re	he applica aries, se. Sult:	C Ye		No		Phone	#:			 	·
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April 08, 2014

BRIAN WALL LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #103

Enclosed are the results of analyses for samples received by the laboratory on 04/07/14 15:50.

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/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H401053-01)

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	04/08/2014	ND	2.13	106	2,00	3.71	
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04	
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18	
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72	
Total BTEX	<0.300	0.300	04/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 114 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/08/2014	ND	416	104	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	04/08/2014	ND	188	94.2	200	2.05	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70	
Surrogate: 1-Chlorooctane	113	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Celey E. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		,

Sample ID: SP 2 @ 2' (H401053-02)

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	04/08/2014	ND	2.13	106	2.00	3.71	
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04	
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18	
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72	
Total BTEX	<0.300	0.300	04/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 115 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/08/2014	ND	416	104	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	04/08/2014	ND	188	94.2	200	2.05	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H401053-03)

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	04/08/2014	ND	2.13	106	2.00	3.71	
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04	
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18	
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72	
Total BTEX	<0.300	0.300	04/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/08/2014	ND	416	104	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	04/08/2014	ND	188	94.2	200	2.05	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70	
Surrogate: 1-Chlorooctane	115 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	TURNER B #103	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 4' (H401053-04)

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	04/08/2014	ND	2.13	106	2.00	3,71	
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04	
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18	
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72	
Total BTEX	<0.300	0.300	04/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	6 89.4-12	6					·	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	448	16.0	04/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/08/2014	ND	188	94.2	200	2.05	
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70	
Surrogate: 1-Chlorooctane	113 9	65.2-14	0						

Surrogate: 1-Chlorooctadecane 103 % 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 (130) 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 incidental by client, its subsidiaries, affiliates or successon's arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based by subove stated reasons or otherwise. Results relate only to the samples to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratores.

Celey D. Kune

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 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 reported	ort

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Tjennings@diversifiedfsi.com

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

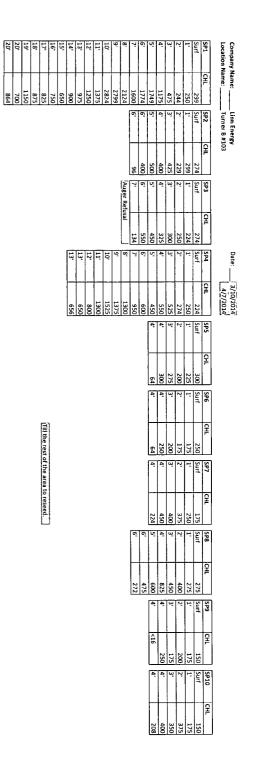
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Project Manage	" Brian Walt					P,	0. #					T	T								1	
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City:	State:	Zip:				A	ttn:	Bri	Linn E	all												
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Project #:	Project	Owner:				c	ity:															
Project Name:	znd spill'					S	tate:		Zip:													
Project Location	Michael Alues	Eddy co 1	22			PI	hone	e #:														
Sampler Name:	Michael Alves	0					ax #:															
FOR LAB USE ONLY			-	N	MATRIX		PR	ESERV	SAMPL	ING												
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	o Damages. Cardinal's kability and chern's exclusive r												1	ł								
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393/23

Sampler - UPS - Bus - Other:

2.42

Cool Intact Yes Yes No No



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Lab Confirmation Sample Field Sampling Needs Delineation and confirmation samples

Appendix V

CORRESPONDENCE

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Rebecca Pons

From:Natalie GladdenSent:Tuesday, April 08, 2014 2:45 PMTo:Mike Burton (mburton@blm.gov)Cc:Wall, Fred; Michael Patterson; Rebecca Pons; Traci Jennings; Stephen McGheeSubject:FW: Linn Energy Turner B #103 - Remediation Plan

Thanks Mike,

We will get on this re-seeding project. LPC seed?

Natalie Gladden ENVIRONMENTAL DIRECTOR DFSI ENVIRONMENTAL SERVICES CELL: 575-602-1786 OFFICE: 575-964-8394 FAX: 575-964-8396

EMAIL: ngladden@diversifiedfsi.com

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From: Burton, Michael [mailto:mburton@blm.gov] Sent: Tuesday, April 08, 2014 2:32 PM To: Natalie Gladden Subject: Re: Linn Energy Turner B #103 - Remediation Plan

Natalie,

Because all surface samples are below our closure levels of 1000ppm. I will request this site not be excavated. Re-seed the area with the BLM seed mix #2 or LPC seed mix. In 1 growing season this site can be reevaluated to determine if additional measures need to be taken. The operator will be required to monitor this site for vegetation stability. Thanks

Inanks

Mike Burton BLM-CFO Environmental Protection Specialist 575-234-2226 office 575-361-3574 cell mburton@blm.gov

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On Tue, Apr 8, 2014 at 10:22 AM, Natalie Gladden <<u>ngladden@diversifiedfsi.com</u>> wrote:

Please find the attached work plan for the remediation needed on the Linn Energy Turner B #103. Thank you in advance for your time in this matter.

Have a great day!

Natalie Gladden

ENVIRONMENTAL DIRECTOR

DFSI ENVIRONMENTAL SERVICES

CELL: 575-602-1786

Office: 575-964-8394

FAX: 575-964-8396

EMAIL: ngladden@diversifiedfsi.com

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Appendix VI

FINAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

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

OPERATOR

OPERATOR	Initial Report	Final Report
Contact: Brian Wall		
Telephone No. 575-738-1739		
Facility Type: Oil Production		
	Contact: Brian Wall Telephone No. 575-738-1739	Contact: Brian Wall Telephone No. 575-738-1739

		ADTAL AG OLE ACCCE
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-26665
Burlace S mile. I caera.		

LOCATION OF RELEASE

		Unit Letter B	Section 20	Township 17S	Range 31E	Feet from the 1300	North/South Line North	Feet from the 1370	East/West Line East	County Eddy	
--	--	------------------	---------------	-----------------	--------------	--------------------	---------------------------	--------------------	------------------------	-------------	--

Latitude 32.8237284410225 Longitude -103.887811333549

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 15 bbl.	Volume Re	ecovered 0
Source of Release: 2" poly flow line	Date and Hour of Occurrence	Date and H	lour of Discovery 07/02/2013
	07/02/2013 8:30 AM	8:30 AM	
Was Immediate Notice Given?	If YES, To Whom?		
🛛 Yes 🗌 No 🗌 Not Required	Mike Bratcher NMOCD		
By Whom?	Date and Hour 10/15/13 11:45 A.M		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.	
🗌 Yes 🖾 No		B	ECEIVED
If a Watercourse was Impacted, Describe Fully.*		(
NA		N	1AY 0.6 2014
			OCD ARTESIA
Describe Cause of Problem and Remedial Action Taken.*	1		In This resulted in a 2 ² out in
A 2" poly flow line was struck by a trakhoe being used by diversified whi the line that released gas and a small amount of water, however no oil was		a previous lea	ak. This resulted in a 2 cut in
The fine that released gas and a small amount of water, however no on wa	i released.		
Describe Area Affected and Cleanup Action Taken.*			
The flow line was immediately shut in and repaired. There was an impact		emoved the in	apacted soil to an NMOCD
approved facility. On April 10, 2001 the site was seeded and restored to it	s natural state per BLM guidelines.		
I hereby certify that the information given above is true and complete to the	he best of my knowledge and underst	and that nursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release n			
public health or the environment. The acceptance of a C-141 report by the			
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to	ground water,	surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respon	sibility for co	mpliance with any other
federal, state, or local laws and/or regulations.			
	OIL CONSER	VATION I	DIVISION
Signature: Fred B Wall			
	Annual by Engineering and Support	·	
Printed Name: Brian Wall	Approved by Environmental Special	IST:	
Title: Construction Foreman II	Approval Date:	Expiration D	ate:
E-mail Address: bwall@linnenergy.com	Conditions of Approval:		
			Attached
Date: 03/25/2014 Phone: 806-367-0645			

* Attach Additional Sheets If Necessary

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

OPERATOR Initial Report Final Report Name of Company: Linn Operating, Inc. Contact: Brian Wall Address: 2130 W. Bender Hobbs, NM 88240 Telephone No. 575-738-1739 Facility Name: Turner B #103 Facility Type: Oil Production Initial Report

Surface Owner Federal

Mineral Owner Federal

API No. 30-015-26665

LOCATION OF RELEASE

		Unit Letter B	Section 20	Township 17S	Range 31E	Feet from the 1300	North/South Line North	Feet from the 1370	East/West Line East	County Eddy
--	--	------------------	---------------	-----------------	--------------	--------------------	---------------------------	--------------------	------------------------	-------------

Latitude 32.8237284410225 Longitude -103.887811333549

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release 12 bbls.	Volume Re	covered 9 bbls
Source of Release: flow line	Date and Hour of Occurrence	Date and H	our of Discovery 12/10/2010
	12/10/2010 A.M.	10:00 A.M.	-
Was Immediate Notice Given?	If YES, To Whom?		
🛛 Yes 🗌 No 🗌 Not Required	BLM Terry Gregston		
By Whom?	Date and Hour: 12/10/2010 11:00		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
🗌 Yes 🛛 No			
If a Wataraau		┓	
If a Watercourse was Impacted, Describe Fully.*			
	MAX 0 0 2014		
	MAY 06 2014		
Describe Cause of Problem and Remedial Action Taken.*	NMOCD ARTES	A	
The flow line at the Turner B #103 froze and plugged off a flow line rupti		and the second se	d the flow line was repaired
A vacuum truck was utilized to recover the free standing fluids.	area near the pumping tint. The wen	was shut in an	a the now line was repaired.
The vacuum vaces was attrized to recover the nee standing halds.			
Describe Area Affected and Cleanup Action Taken.*			
The affected area was the location on the Southside of the pumping unit e	ast to be 90' long X 19' wide. The r	elease ran off	the location in two narrow
flow paths east. The spill area mapped was 17,335 sq. ft. of impact. All in			
area was remediated and re-seeded according to BLM guidelines.		opp	
I hereby certify that the information given above is true and complete to t	he best of my knowledge and underst	and that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective ac	ctions for relea	ses which may endanger
public health or the environment. The acceptance of a C-141 report by th			
should their operations have failed to adequately investigate and remediat			
or the environment. In addition, NMOCD acceptance of a C-141 report d	loes not relieve the operator of respon	sibility for cor	npliance with any other
federal, state, or local laws and/or regulations.			
	OIL CONSER	<u>VATION I</u>	<u>DIVISION</u>
Signature: Fred B Wall			
Signature: I TCN D VVNCC			
Drinked Marra Drive Well	Approved by Environmental Speciali	st:	
Printed Name: Brian Wall	·		
Title: Construction Foreman II	Approval Data:	Evaluation D	ata
	Approval Date:	Expiration D	aic
E-mail Address: bwall@linnenergy.com	Conditions of Approval:		
	Conditions of Approval.		Attached 🔲

Date: 04/25/2014 Phone: 806-367-0645 * Attach Additional Sheets If Necessary