# Bratcher, Mike, EMNRD

From:

Amy Ruth <aruth@diversifiedfsi.com>

Sent:

Thursday, July 18, 2013 2:00 PM

To:

Bratcher, Mike, EMNRD

Cc: Subject: gawink@linnenergy.com Linn Energy JL Keel B #91

Attachments:

Linn JL Keel B #91 Site Diagram w Sample Data.pdf; H301428 LINN surface.pdf;

H301483 LINN exc bottom.pdf; C141.tiff

Mike,

Great talking with you this afternoon. We have begun excavating a few sites right away and need to request permission to go ahead with activities at their various junctures. Per our conversation, here is the data on the first site we'd like to discuss.

The Linn Energy site J.L. Keel B #91 (2RP-1294) spill that was previously being looked at by Etech has been excavated by Diversified to 1 and 2 ft. bgs and confirmation samples were collected. Attached are the site diagram and lab data. We would like permission to backfill the site and proceed to a site closure report. Please let me know if you would like to see photos or would rather set up a meeting in person. I still owe you lunch. Either way, here is the data. Thank you!

# Amy C. Ruth

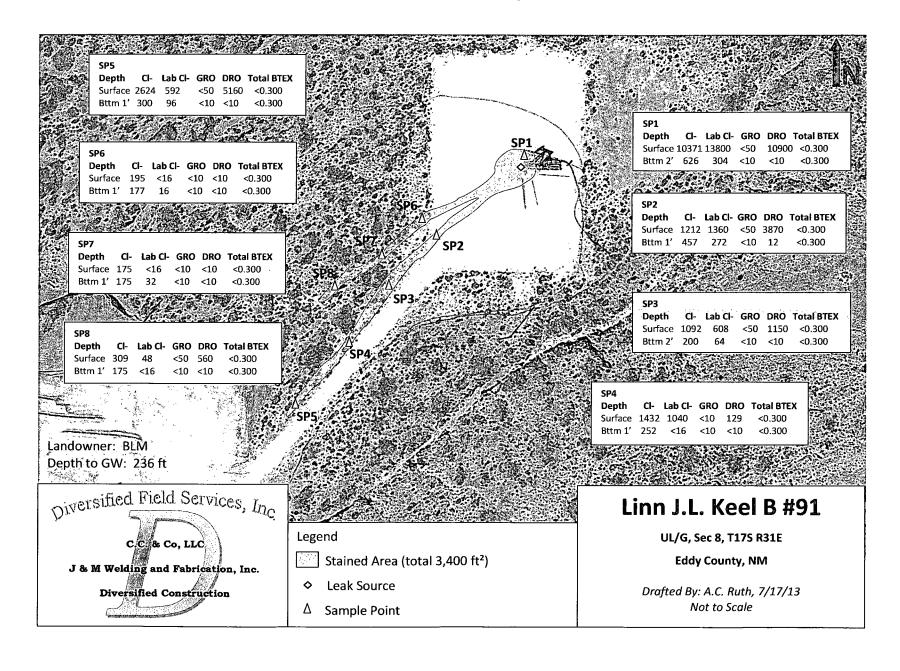
Diversified Field Services, Inc. 315 S. Leech St. Hobbs, NM 88240 Office: (575)397-6437 Mobile: (575)390-5454

Fax: (575)393-2981

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<sup>&</sup>quot;Nothing will work unless you do." -Maya Angelou

# **Site Diagram with Sample Data**





June 27, 2013

**GARY WINK** 

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: J L KEEL B #91

Enclosed are the results of analyses for samples received by the laboratory on 06/20/13 8:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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 & 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



LINN ENERGY **GARY WINK** RR1, BOX 24 B KINGFISHER OK, 73750 (405) 375-6693 Fax To:

Received:

06/20/2013

Reported:

06/27/2013

Project Name:

J L KEEL B #91

Project Number: Project Location:

**NONE GIVEN** 

**NOT GIVEN** 

Sampling Date:

06/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 1 SURFACE (H301428-01)

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	06/22/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/22/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/22/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/22/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	6 89.4-12	16						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	06/24/2013	ND	432	108	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	<50.0	50.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	10900	50.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	92.3 9	% 65.2-14	10					-	
Surrogate: 1-Chlorooctadecane	403 9	63.6-15	i4						

#### 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.

Celeg D. Keine



LINN ENERGY
GARY WINK
RR1, BOX 24 B
KINGFISHER OK, 73750
Fax To: (405) 375-6693

Received:

Reported:

06/20/2013

06/27/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 SURFACE (H301428-03)

BTEX 8021B

**TPH 8015M** 

GRO C6-C10

Analyte

Surrogate: 1-Chlorooctadecane

mg/kg

mg/kg

120 %

Reporting Limit

50.0

63.6-154

Result

<50.0

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	06/22/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/22/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/22/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/22/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/24/2013	ND	432	108	400	3.77	

Analyzed By: MS

Method Blank

ND

ND

BS

213

% Recovery

106

106

Analyzed

06/21/2013

06/21/2013

DRO >C10-C28	1150	50.0
Surrogate: 1-Chlorooctane	91.0 %	65.2-140

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RPD

0.956

3.66

Qualifier

True Value QC

200

200

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Celey & Kune



LINN ENERGY
GARY WINK
RR1, BOX 24 B
KINGFISHER OK, 73750
Fax To: (405) 375-6693

Received:

06/20/2013

Reported:

06/27/2013

Project Name: Project Number:

J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 4 SURFACE (H301428-04)

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	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6					•	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	129	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	92.2 9	% 65.2-14	0				-		-
Surrogate: 1-Chlorooctadecane	94.5 9	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



LINN ENERGY GARY WINK RR1, BOX 24 B KINGFISHER OK, 73750

Fax To:

(405) 375-6693

Received:

06/20/2013

Sampling Date:

06/17/2013

Reported:

06/27/2013

Sampling Type:

Soil

Project Name:

J L KEEL B #91

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

# Sample ID: SP 6 SURFACE (H301428-06)

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	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	89.4-12	6						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/l	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	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	<10.0	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	94.3 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.6%	63.6-15	4						

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Celey D. Keine



LINN ENERGY GARY WINK RR1, BOX 24 B KINGFISHER OK, 73750

Fax To: (405) 375-6693

Received: Reported: 06/20/2013 06/27/2013

Project Name: Project Number:

J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

mping bate.

06/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 7 SURFACE (H301428-07)

BTEX 8021B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2013	ND	1.96	98.0	2.00	3.95	
Toluene*	<0.050	0.050	06/24/2013	ND	2.09	104	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/24/2013	ND	2.25	112	2.00	3.79	
Total Xylenes*	<0.150	0.150	06/24/2013	ND	6.79	113	6.00	3.17	
Total BTEX	<0.300	0.300	06/24/2013	ND				200	
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2013	ND	432	108	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	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	<10.0	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	93.4	% 65.2-14	0				-		
Surrogate: 1-Chlorooctadecane	95.9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

+ Cardinal cannot accept verbal changes. Please fax written changes to

Company Nam	e: L)nn Enongy									Bi	LL TO		£				ANA	LYSI	S RE	QUE	<u>ST</u>			
Project Manage	er: Gary Winh						F	2.0.	#:										1			1.		
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City:	State:	Żij	<b>)</b> :					ttn:		-								]						
Phone #:	Fax #:						A	\dd r	ess	: 0			]							1				. 1
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Sampler Name							F	ax #	ŧ:	-														. !
FOR LAB USE ONLY					M/	TRIX		Pi	RESI	ERV.	SAMPL	ING	]	٠.	j	l			1					, ,
		(C)OMP.	0	œ	_									ž	Ì									
Lab I.D.	Sample I.D.	(G)RAB OR (C)	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	ACID/BASE	ICE / COOL	OTHER:	·		chloridas	TPH XOIS	BTEX									
H301428		<u> </u>	Ŭ #	g,	¥ ΩS	등	SLL	S S	핑	5	DATE	TIME	C	<u> </u>	<u> </u>	,								
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PLEASE NOTE: Liability a	nd Damages. Cardinat's liability and client's exclusive remedy for a	iny clai	m arisi	ng whet	her base	d in con	tract or t	ort, sh	all be li	imited:	to the amount pai	d by the client for	the		,	ــــــــــــــــــــــــــــــــــــــ	<u> </u>							
service. In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	withou	ıt limita	tion, bu	ajness in	terruptio	ons, loss	DE UEC	, or los	s of pr	rofits incurred by	client, its subsidia	ries,	le						· · -				
affiliates or successors aris Relinquished B	ing out of or related to the performance of services hereunder by C			dless of		such cl	aim is ba	sed u	Son an	y of the	e above stated re	Phone Res		☐ Yes	s 🗆	No	Add'l	Phone :	#:			كبنيسة	,	·
1	16.17.13 Time: 16.15		M	سر	~	X	t	<u>/</u>	H.	)		Fax Resul	<b>}:</b>	□ Ye		No	Add'l							
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July 02, 2013

GARY WINK
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: J L KEEL B #91

Enclosed are the results of analyses for samples received by the laboratory on 06/25/13 15:45.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg & Keene

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



LINN OPERATING-HOBBS **GARY WINK** 2130 W. BENDER HOBBS NM, 88240

Fax To:

(575) 738-1740

Received:

06/25/2013 07/02/2013

Sampling Date:

06/24/2013

Reported:

J L KEEL B #91

Sampling Type: Sampling Condition:

Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

# Sample ID: SP 1 BOTTOM 2' (H301483-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP			——————————————————————————————————————		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.100	0.100	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 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	304	16.0	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	93.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.4	% 63.6-15	4						

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Celey D. Keene



LINN OPERATING-HOBBS **GARY WINK** 2130 W. BENDER HOBBS NM, 88240

Fax To:

(575) 738-1740

Received: Reported: 06/25/2013 07/02/2013

J L KEEL B #91

Project Name: Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 2 BOTTOM 1' (H301483-02)

BTEX 8021B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.050	0.050	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.3	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP				<u>,                                      </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/27/2013	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	12.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	89.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

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Received:

06/25/2013

Reported:

07/02/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 BOTTOM 2' (H301483-03)

BTEX 8021B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.050	0.050	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 89.4-12	6					131	
Chloride, SM4500CI-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	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	92.0	% 65.2-14	0		-		<del>_</del>		

Surrogate: 1-Chlorooctadecane

93.5 %

63.6-154

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Fax To:

(575) 738-1740

Received: Reported: 06/25/2013

07/02/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 4 BOTTOM 1' (H301483-04)

BTEX 8021B	mg/	kg	Analyzed By: AP					· · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.100	0,100	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0,150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0,300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	95.1	% 89.4-12	6	<u>-</u>					
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	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	89.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.2 S	% 63.6-15	4						

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Fax To:

(575) 738-1740

Received:

06/25/2013

Reported:

07/02/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 5 BOTTOM 1' (H301483-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.050	0.050	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 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	96.0	16.0	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	104 9	65.2-14	10			<u> </u>			
Surrogate: 1-Chlorooctadecane	99.4	% 63.6-15	4						

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Fax To:

(575) 738-1740

Received:

06/25/2013

Reported:

07/02/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 6 BOTTOM 1' (H301483-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.100	0.100	06/28/2013	ND	1.94	97.1	2.00	15,4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 89.4-12	6			<del></del>			
Chloride, SM4500CI-B mg/kg		Analyze							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.9	% 63.6-15	4						

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Fax To:

(575) 738-1740

Received: Reported: 06/25/2013

1.

07/02/2013

Project Name:

J L KEEL B #91 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: SP 7 BOTTOM 1' (H301483-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.050	0.050	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	94.1	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2013	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	0						<u>-</u>
Surrogate: 1-Chlorooctadecane	82.2	% 63.6-15	4						

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Fax To:

(575) 738-1740

Received: Reported:

06/25/2013

07/02/2013

Project Name: Project Number: J L KEEL B #91 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 8 BOTTOM 1' (H301483-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	<0.050	0.050	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	<0.050	0.050	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	<0.150	0.150	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	<0.300	0.300	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/27/2013	ND	400	100	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	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	<10.0	10.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	88.4	% 63.6-15	4						

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: Linn Energy		BILL TO		ANALYS	IS PEC	UEST	
Project Manage			P.O. #:		ANALIS	NO REG	The state of the s	T in the
<del></del>	er: Gary Wirth	<del></del>	//				· . :	
Address:	<del></del>	: : : : : : : : : : : : : : : : : : : :	Company:	-	1 1 .			
City:	State:	Zip:	Attn:					
Phone #:	Fax #:	<u></u>	Address:					
Project #:	Project Owner	•	City:					
Project Name:	<u>e naint la la la ate</u>		State: Zip:	2				riis I
Project Location	on: JL Keel 8 #91		Phone #:	15			11211 12	
Sampler Name			Fax #:	40				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	738		. [		
		OMP		3 ×				
r didit i s		OR (C)O AINERS IDWATER WATER	Harrie Harrie			.		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OW # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL:	Sol I	1970				
k. – eta i		(G)RAB O # CONTA GROUND WASTEW SOIL OIL.	D/B/OC/	-49,7		4.1	.:: "	
H301483		(G)R, # CO GRO GRO SOIL OIL	DATE TIME	UMPI			Hill II.	
1	SRI Bottom 2'	12	6/24 1305	VV				1.111
2	SQ2 Bottom 1'	12	6124 1372					
3	Se3 Bottom 2'	1,2	6n4 MO7	<b>V</b> (/ <b>V</b>	1 111			
- 4	Spy Bottom 1'	1/12	6/24 1245					
5		12	6/24 1430	Y				
- L	SP6 Bottom 1	/4	6/34 1450	VVV		.: - :		
7	SQ7 Bottom 1	111	1 GAZU 1508	1////////		Teller I		
_ 8	sab Bottom 1	111	6/24 1527	J. V. J.	13111	1 ::. :		*****
				10.00	3			
				<u> </u>	1 1	. [ ]		1

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Relinquished By:	Pal915/12	Received By:		Phone Result:	□ Yes	□ No	Add'l Phone #	<b>#:</b>		
l fa filide gille die offen	10/01/10		~ O . A		☐ Yes	□ No	Add'l Fax #:			
hus Cantolox	Type: 45	>Gpr.W		REMARKS:		·:. ·: ·· ·· ·		111111. 111111.		1.1
Relinquished By:	Date: 25	Received By:		Email	-					
MAN	Time: 45pm	Wai se	nson	gawin	nka	lin	nener	34. C	om	
Delivered By: (Circle One)		Sample Condition Cool Intact	CHECKED BY:	aruth	1000	live	siried	I Fsi.	10m	: 1111
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326